

2650	10701	A	3575	2765	3138	YSLKSGSVMPALFFWLRIALAMQALF WFHMNFKVVSNSLKKVIGSFMGMALN L*ITLGSMAIFTILPTHEHGMFFHLFVSS FISLSSGL*FSLKRSFTSLVSWIPRYFILFE AIVNGSSL
2651	10702	A	3576	265	663	GRASGVVRSRWWCDLAGFRGEAADLH GVCYSRLRSPAGFTQWIHQGSRWSCLP VPRRAPALLALGWSMGWAPPQPLAWV LSPSLPGAGSADWLLQVRGPPSPRPPGTP AGPPAPCAALVPARVSPSTLPS
2652	10703	A	3577	82	361	LRSPAGFTQWIRTGAAGGAACQFRAVRP ALLSPWVVDGTGRRGAGGGAYRGGSG RTGAHGTGGGSGMAGCRSRAVPRKAA KTRPCEVQKRQHNVNLYFPVETKAQT VKWFLA*ASPCSVGSCAARASPISAAP CSTAPSPIDHPRAEECWAHGTLAGSSTC SPGADPLGEASWAPE
2653	10704	A	3578	806	934	KILSSKFPFSFLPSYVCTSSFP*THPSIIST SSSSHSVPTN
2654	10705	A	3579	1034	1393	AVTLTGKVCSTPEASETTNPPGGTNN RRASLRAATLTVKVRSTPRGSAASFFKS VRPRTHQFRTQYSPRMSKIRDCSRSCFI SFLASWRIICLL*VLISLCAW*RYRLF LPSS
2655	10706	A	358	4627	5052	LSTKAPRKDTLNFNKCWENWISICRRLQ LGSYLLPY*KINQKWIKGLNDRSETMKL LKENIGEMLKNIGLGKDFMVKTSKA*AT KQKIGRWDYIKLKICTAKKT/IRVKRPTV DGNNIFKLSNRGLISRVYKEHNSTVKKK KK
2656	10707	A	3580	529	750	REFRVGVASADPAFGAAGRPCPQGQ*G A*HTGQWLRRVYVWPQQCQPTGVALDF SPGLSCLPAGQSGPAARHA
2657	10708	A	3581	2	343	HAVFFISIRSFMEFFKLVLVSNSKLFSTF LVSLHWWRTCSFSSEEFVITHFLKPTSVN SSNSFSVQFCSLAGEEL*SFGGEEAFWFL EFSALHWWFLIFMDLSTFGLCCC
2658	10709	A	3582	289	422	
2659	10710	A	3583	189	309	
2660	10711	A	3584	587	801	
2661	10712	A	3585	76	1740	SLLTAASSFQPQLKQSSHLSPSGWDYR LRMTQNKLLKCSKANVYTEVPDGGWG WAVAVSFFFVEVFTYGHKTFGVFFNDL MDSFNESNSRISWIISICVFLTFSAPLAT VLSNRLGHRLVVMMLGGLLVSTGMVAA SFSQEVSHMYVAIGIISGLGYCFSFLPTVT ILSQQYFGTRRSIVTAVASTGECFAVFAF APAIMALKERIGWRYSLLFVGLLQLNIVI FGALLRPIFIRGPASPKIVIENRKEAQY MLENEKTRTSIDSIDSGVELTTPKNNPT HTNLELEPKAD\MQQVLVKTSRPPSEKK APLLDFSILKEKSFICYALFGLFATLGFFA PSLYIIPLGISLGIDQDRAAFLSTMAIAE VFRIGAGFVLNREPIRKIYIELICVILLTV SLFAFTFATEFWGLMSCSIFFGFMVGTIG GLTFHCLLKMMSWALQKMSSAAGVYIF IQSIAGLAGPPLAGLLVDQSKIYSRAFYS CAAGMALAAVCLALVRPCKMGLCQRH HSGETKVVSHRGKTLQDIPEDFLEMDLA KNEHRVHVQMEPV

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2662	10713	A	3586	1	2472	GFVFLLLAPLSRLEFHKSRGLKNVFEGL EAEECFYKVHLDGGELEEVRPDAETT THQGRVSQEKHQALGCKWPKLCGDALC VILSAPSPIDHPKAEECRRRARDWQAAPP AAPVRDPLGEASWAPESGQQMKEAAEL GVSCMGPDLEKLTLYEVKLRLOGCKAA QRPLGCTLLAIQGTLYQRIFSPLTQPELV NGKGWHLTQESLSQNGSLEFLTSEPHSP NPNEGSSRRQSLHTNANNMAFASEQFPN LPSGSGSRGFPGRARVLHLDCQNCQRLT AGPAQLQGSRAANRRKALVSPSSSVARE DGFAEEMVFTYGIKTFGVFFNDLMDSF NESNSRISWIISICVFVLTFSAPLATVLSN RFGHRLVVMLGGLLVSTGMVAASFSE VSHMYVAIGHISAIMALKERIGWRYSLLF VGLLQNLVIFGALLRPIFIRGPASPKIVIQ ENRKEAQYMLENEKTRTSIDSIDSGVELT TSPKNVPTHNLLELEPKADMQQVLVKTS PRPSEKKAPLLDFSILKEKSFCYALFGLF ATLGFFAPSLYIPLGISLGIDQDRAAFL STMAIAEVFGRIGAGFVLNREPIRKIYIEL ICVILLTVSLFAFTFATEFWGLMSCSIFFG FMVGTIGGLTFHCLLRMMSWAL/QKMS SAAGVYIFIQSIAGLAGPPLAGLLVDQSK IYSRFYSCAAGMALAAVCLALVRPCK MGLCQHHSGETKVVSHRGKTLQDIPE DFLEMDLAKNEHRVHVQMEPVVRRRFA AAGPAGLGAAGSDAFPAREGPERRAG YSGPAAACDFSTAAPKREQRGPLSLVG LEM
2663	10714	A	3587	323	1303	STLYLPAMDTNQEEIPDLLALGTSAWSS TLAALEEPFSLPLHCGSPFLGWSRPELAP SACREVWREKPEWELGLRTVLAGQCEF RVGVGSGDSTRSSWPPLAPGNEGLSTR ASSCGGCTGSPSRAGPPVLCISQCALAA FPRGRARGLOPAMPEPPPLRGLLCSPEP PRLVPPPAPGHPVPLTTQGLRSTGKTHR DWQAAPPAAPVRDPLGEASWAPESANL VGKWRFTVSSSGTANAPISTLSKQTTGL YQSAGCGWGQNLGAKYRA/LCRPVKSD *HGRQTKDTGVRLSGKGLSNPN*LFRVG TVGSHRPHFTYMDGLASGV
2664	10715	A	3588	1	3552	
2665	10716	A	3589	375	646	KKSLLSINSRLQLVMKSGKYVLG\YKQT LKMIROGKAKLVILANNCPLSGNNIEL GTACGKYRVCTLAIDPGSDIIR\SMPE QTGEK
2666	10717	A	359	1	366	KKQIFLELISIYSRVAGYKNTQKSVAFLY NSNKQLNL*IK/DTMPFILAC/NK*KHLPL NLTK*VQEIEGNYDTFMK*IED/DKQRN ISSW*KRFIKMPILPNLIYRYNAFPVKIS ESYLVDI
2667	10718	A	3590	75	335	LRILKFLSCSLSLGWGSPSLRQEDGGR KRRRKKSLESINRLQLVMKSGKLLPGG TSQTLKMIROGKAKLVILANN/CGPALR KSENEYCYVWLKTGC/HHPLTVGNNE LGATA/CGKITYRVLHTGLFIDPG*LLTSF RKACPEQTC*KMVAAKEDEKSRWSRST LGSNSLWKSGLLPGGTSQTLKMIQTRQ SEMWSFSLTTGPSFEEI
2668	10719	A	3591	1	2580	
2669	10720	A	3592	1	1386	



2670	10721	A	3593	2	1419	RPPGIRAPRQLHPAAGRPDASARPRFRP TVLLHDPFQLSFPPPLSYPSVFPVAVRV LPQRSGDYRAAGMPQLSGGGGGGGGDP ELCATDEMIPFKDEGDPQREKIFAEIVNP EEEGDLADIKSSLVNESEIIPASNGHEVA RQAQTSQEPYHDKAREHPDDGKHPDGG LYNKGPSYSSYSGYIMPMNMNDPYMS NGSLSPPIRPTSNKVPVQPSHAVHPLTP LITYSDEHFSPGSHSHIPSDVNSKQGMS RHPPAPDIPTFYPLSPGGVGQITPPLGWQ GQPVYPITGGFRQYPSSLSGDTSMRFS HPMIPGPPGPHTIGIPHPAIVTPQVVKQ DHPHHSSDLMHVKPQPEQRKEQEPKRP PTKKPLNAFMLYMKEMRANVVAECTL KESAAINQILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDNYGKKKK RKREKLQESASGTGPRMTAAI
2671	10722	A	3594	59	435	STCPAPQSARVQWCNLSLQPPPTPTPR SSNSPASASQIAGUTGVRHHTQLIFVFLV GDGGFHCVGSGWVSNCWPSGWRPLWP HLFLGFHKDLEVVGFLVFASISFRSWRW DLKNSSVLTHFFK
2672	10723	A	3595	54	442	
2673	10724	A	3596	360	1023	GQGRLPERGYLEAGVYRICGRQSRHED GTHRGAQVIEQRRKWLPALGFQPIILQL CGKRVPAPSRASTGQPQASRAWSGPLP HPQCGSDIRLRVRAEYCEHGPALQGV SRRPQALARQLDVFGQATAVLRSDLG VVCDFKSELSYLDADFWDYLSGALLQA LRGVFLTEALREAVGREAVRLVSVDEA DYEAGRRLLLMEEEGRRPTEAS
2674	10725	A	3597	3	370	QMYCVFNREDACRY/GS/AIGVLAFLAS AFFLVVDAYFPQISNATDRKYLVIDLLF SGVLAFLAYQRYKAGVDDFIQNYVDPT PDPNTAYASYPGASVDNYQPPFTQNAE TTEGYQPPPVY
2675	10726	A	3598	1	1356	
2676	10727	A	3599	3	706	GGSGGDGDMESGAYGAAGGSFDL RRFLTQPVVARAVVLVFAVIVFSCIY EGYSNAHESKQMYCVFNREDACRYGS AIGVLAFLASAFVVDAYFPQISNATD RKYLVIDLLFSALWTFWVFGFCFLT QWAVTKPKTVLVGADSVRAITFSFFSI FSWGVLASLGYQRYKAGVDDFIQNYV DPTDPNTAYASYPGASVDNYQPPFT QNAETTEGYQPPPV
2677	10728	A	36	2	424	
2678	10729	A	360	241	583	NGPPFFFFFEMEFSLLLPRLECNGAISAH RNLRLPGSSDASPASAGLL*SQVAGITRL RHHD*LILY/FLVEMRFHRVG*AGLELLT SGDPPSSASQGAGITGMSHSAGHYGKIF
2679	10730	A	3602	1	171	RILMAINGKVFDVTKGRKFYGPVKYHH VGKLLTAGEEPAVYSDEEEKDESARK ND
2680	10731	A	3603	3	253	LSLQEFGTSFAGRDASRGLATFCLDKEA LKDEYDDLSDLTAAQQETLSDWESQFT K/LKEGEETVYSDEEEKDESARKND
2681	10732	A	3604	3	701	PARHSLAQREEKVASSGSLPSAAQPLLSE IMAAEDVVATGADPSDLESGLLHEIFT SPLNLLLGLACIFLLYKIVRGDQPAASG DSDDDEPPPLPRLKRRDFTPAEVLRRFDG VQDPAPYSWAINGKVFDVTKGRKFLT GPEGPYGVFAGRKCIQALPTFLDKEA LKDEYDDLSDLTAAQQETLSDWESQF TFKYHHVGKLLKEGEETVYSDEEEKD ESARKND

2682	10733	A	3605	3	678	KRLPKMAEVQVLVLVDGRAHSSLGRLA/ AIVAKIQVLLGRKVVVVVRCEGINISGNF YRINKLKYLGFPSPGMNTNPSRIGPYHF GAPSRILLAGTVRGMPLPHKTKAEAKAA LDRLKVFDGIPPPYQGEKSGMVVPA LKVVR\KPTRKFCLIWGR\APEVGWK YQAVTATLEE\KRKREKPRFHYRKKENSI MRL\RKQAREETWRKKIDKYTEVLKTHG LLV
2683	10734	A	3606	114	353	
2684	10735	A	3607	104	342	
2685	10736	A	3608	211	241	NFNGRGGLAAGRRKKPDWLDSTLNS*PS H
2686	10737	A	3609	37	116	
2687	10738	A	361	654	942	CHACNPQHFGRRPQVDHLRSGV*DQPG QHGETPSLLKIQKLAGHGGVHL*S*LLR RLRQENRLNLGGGCSEPRSHHCTPAW VTE*DSVSRKKKK
2688	10739	A	3610	104	516	ALSSRGVMAEYGTLLQDLTNNITLEDLE QLKSAFKE\DIPEKSEEITGSAWFSFLE SHNKLDKDNLSYIEHIFEISRRPDLLTMV VDYRTRVLKISEEDELDTKLTRIPSAKKY KDIIRLPSEEEIKL\APPPKKA
2689	10740	A	3611	569	838	PTVLWEPPSFPPPPQGIPIHSG/PDTLTGR RRASPSGLCYSENGGLTEEGSTRPPAH/S PGATVSSPPPPPPSSSLPCCLGNRHFD RV
2690	10741	A	3612	268	356	
2691	10742	A	3613	489	605	QLQVCYCT*RPYSGTRCGVSNVQLLCS LLSHLCCSAS
2692	10743	A	3614	391	561	
2693	10744	A	3615	367	855	GARRQAHTMALK\IRINKELSDLARDPPA QCSAIGPVG\DDMFH\WKATINGDLMDK PIFKGGVFFLTIHF\PTDYPFKTPKVAFT TRIYHPNINSNG\ICLDILRSQWSPALTIS KVLLS\ICSL\CDPN\DDPLVPEIARVY KTDRDKYNRISREWTQKYAM
2694	10745	A	3616	1002	1480	MLLLKTTERFEVSVMCTYVSNLGGK QRSVSFLASGLMRVSTGPELRLHHSFVL TGDVGRRICRLVGLFTKGDTSKRVAHP FSPGP\CFLLCDLAR\VGSSPKINRVPHFT RTQTSTQRSCVFWQRCSLVGPFQVT FTMYFHSLRSISRFS
2695	10746	A	3617	223	415	
2696	10747	A	3618	1	858	
2697	10748	A	3619	144	1339	DPEQPDMEQPWPPPGPWSLPRAEGEAE ESDFDVPSSPRCPQLPGGGAQMYSHGIE LACQKQKEFKSSVACKWNLAEAQKL GSLALHNSLSDQEHAKAQTSIRTEGN GKKNWRQKEEAL\QREKMCLWSTDAI SKDVFNKSFINDKRDTEDEKSEFM QKYEQKIRHFGMLSRWDDSRFLSDHP YLVCEETAKYLILWCFHLEAEKKGALM EQIAHQAVVMQFIMEMAKNCNVDPGRC FRLFFQKAKAEEGYFEAFKNELEAFKS RVRLYSQSQSFQPMTVQNHVPHSGVGS GLLESQPNDYLQYSISTALCSLNSVVH KEDDEPKMMGHCIWVKTAEAKCYFVT GKGGTWAIFLDTFMGVLALYFCSVFDG RERVLCFVNFF
2698	10749	A	362	1	2322	
2699	10750	A	3623	44	420	
2700	10751	A	3624	20	421	
2701	10752	A	3625	1	346	LRPQSAQSSFPSPGSPDVQLATLAQRV KEVLPHVPLGVIRDLAKTGCVDLTITN LLEGAVAFMPEDITKGTQSLPTASASKF/ PRQESLQERKQALYEYARRRFTERRAQE

					AY
2702	10753	A	3626	162	461
2703	10754	A	3627	39	260
					DCKPVARPSTKAKTDQSGPFLSLLPHRY LSLSLTLRSSSPESMTCWMEGREKEKSA SQ*VTTTFRASMSSYTA
2704	10755	A	3628	1	2160
					FRPGAPEAAVMELSSWPGPERLFDHRL PGDCFLLLVLVLLYAPVGFCLLVLRFLGI HVFLVSCALPDSVLRFRVVRTMCAVLGL VARQEDSGLRDHSVRVLISNHVTPFDHN IVNLLTTCSTVSESEADSATVRFPGAQLK APLSPLAFPMEDTEALPLTPILYPTCQFFF FIFLNIFLLAFSSPGSQPLLNKSPQAFVC WSRGFMEMNGRGEVLVESLKRFCSTR LPPTPLLLFPEKKATNGREGLRFSSWPF SIQDVVQPLTLQVQRPLVS/VGECVLNRE SLGLEGEISHPWPWLRPHLMPSPTVSD ASWVSELLWSLFVPFTVYQLVAKELGQT GTRLTPA\DKAEHMKRQRHRLRPQSAQ SSFPSPGSPDVQ/IWATLAQRVKEVLP H/VGPLGVIQRDLGMKGKGGPTLGDGHE EKWVVKEETKTGCVDLTITNLEGAFAF MPEDITKGTQSLPTASASKFPSSGPVTPQ PTALTFAKSSWARQESLQERKQALYEYA RRTFPQVTRSHIISTALEDPCLSKISTTCQ RGNSLRSCQRATMTSQPLRLAEEYGPSP GESELAVNPFDDLFPSSRYELLKQORQA LPIWAARFTFLEQLESNPTGVVLVSGEPG SGKSTQIPQWCAEFALARGFQKGQVTVT QPYPLAARSLALRVADEMDLTLGHEVG YSIPQEDCTGPNTLLRFCWDRLLQEVA STRGPGKLGRACTR
2705	10756	A	363	8453	9757
					APCLLGWSLPSRSKTYAYLFSPSRMP VYPKWVGADHADDIQYVFGKPFATPTG YRPQDRTVSKAMIAYWTFNFAKTG*DVG *VQGGGPQPRRASHHEALFPHLPVEGLW ASHLTSPCIGIHVCLMRVTRGRAPSPCTC TASAQYAVRGMVPRASSEGGDGSVQV ESRASAPWESPAPAQPLLTLQDPNMGD SAVPTHWEPTYTENSLEYITKKMGSSS MKRSLRTNFLRYWTLTYLALPTVTDQE ATPVPTGDSEATPVPTGDSETAPVPPT GDSGAPPVPPTGDSGAPPVPPTGDSGAPP VPPTGDSGAPPVPPTGDSGAPPVPPTGDS GAPPVPPTGDSGAPPVPPTGDAGPPVPP TGDSGAPPVPPTGDSGAPPVPTPTGDSETA VPPTGDSGAPPVPPTGDSEAAPVPPTDD SKEAQMPAVIRF
2706	10757	C	3631	44	340
					MKCSQPXRCHFQSDQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPEGAGDPSHLLDPPGH SAPYSPAPQLSRV*
2707	10758	C	3632	2037	2426
					MKCSQPPRCHFQSDQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPIQTQEVAPEGMYLV GSSSGTLGGCRALTQVFLSSLGCVCA CACACLCFSLWAHQDVSS*
2708	10759	A	3633	184	9818
					IEEPRDTRLQVCSGVHIVCLDKFKMRKH RHLPLVAVFCLFLSGFPTTHAQQQADV KNGAAADIIFLDSSWTIGEEHFQLVREF LYDVVKSLAVGENDFHFALVQFNGNPH TEFLLNTYRTKQEVLSHISNMSYIGGTNQ TGKGLEYIMQSHLTKAAGSRAGDGVPPQ VIVVLTGDHSGDGLALPSAELKSADVNV FAIGVEDADEGALKEIASEPLNMHMFNL ENFTSLHDIVGNLVSCVHSSVSPERAGDT E

2709	10760	A	3637	312	805	GPQAGSSPEILLPEDNSLRWAGAGCHTQ DSATTVTASWAPLCAGAGREEDGTPCV CLGRSARPKLVFGRPLRTSALRPGACIP HGLLCYPREPVDFRPGSGRAWPPRSPSP/ CQDPRPSRSAPGSEPGW/CPDPPAPPRLV TLGRASPHLTLPRAAPPFCRWRP
2710	10761	B	3639	199	286	XSELESALQMEPAAFQALYSAEKPKELED EHLVFFCQMGKRGQLQAHAGPESWIHW GSQLRWSL*
2711	10762	A	364	10	548	FRLVLSRLEGIGAILAH*NLCLLGSNDSP ASATRVAGITGRHHAPLIFVFLVEMGF RHVGQAGHKLLISGDPPA/SASQSAGITG VSH/ARLAALS NF*GLGQVPTPLKQATLL SLLDTSPSLPAIFFLFFF*DRFS\SVTQAEV QWGDHCSLHP*PTGLKDPPASASRLGTT RTRHHSR
2712	10763	A	3640	754	1082	GMVVICCLGAPRTQPFQAQLPNLSAKLL AFPSTLSTPPVSELESALQMDQPAFQAL YSAEKPKEDEHLVFFCQMGKRGQLQAT QLARSLGYTGARNYAGAYREWLEKES
2713	10764	A	3641	113	737	AGPDSFCNFSVCPSSTSTAWILVLAQFLL SPTLLPSRMLTVALLALLCASASGNAIQ ARSSSYSGEYSGGGGKRFSHSGNQLDGP ITALRVRVNTYIYVGLQVRYGKVWSDY VGGRNGDLEEIFLHPGESVIQVSGKYKW YLKEAGYLVPTKGPFLSFGKSKGPSFN AVPLHPNTVVRFISGRSGSLIDAIGLHWG CFHTTSCSRC
2714	10765	A	3642	1724	1818	
2715	10766	A	3643	1	894	RGESRVLWSELEGEAGGAGGWASSLNA RMDNRFATAFVIACVLSLISTIYMEGSIG TDFWYEYRSPGQENSSDLNKSIDEFIS DEADDATYNDALEFRYNGTVGFLRRVY SPYPKTLHWVLAHHERTESFDVVTIKCV SFTLATEQFMEKFVDPGK/HTNSRGLDLL RTYLWRCQFLLPFVSLGFDVLWGALIG LCA\CICRSLYPSIATGILHLLAGLCTLGS VSCYVAGIELLHQKLELPDVSGEFGWS FCLACVSAPLQFMASALFIWAHTNRK EYTLMKAYRVGMSKKPACF
2716	10767	A	3644	323	898	
2717	10768	A	3645	816	1171	LFKHFWGPVANWGLPIAANDMKKSPG DYSVGRMTFALC\CYS\TFMEILPYKVQ PSGTWASCFACHGTNEVRPSFIQGEGLI PNTRMDLKRASGINQWGKGKNKVFECD SLCPGCC
2718	10769	A	3646	205	369	
2719	10770	A	3647	3	451	CSGAGAEPANPRSPRSLVPSLESTSTSV PPAPGTMATDSWALAVDEQEAASG AVVKTNANAETDEEEKEDRAAQSLN KLIRSNLVDNTNQVEVLQRDPNSPLYSG KSFEELRLKPQLLQGVYAMGFNQPSKIQ ENALPLMLAEPY
2720	10771	A	3648	1	186	
2721	10772	A	3649	2	261	SSANNISILGAFRSVTKWLS*THPL*FFCQ CLCLSPTYELALQTGKVIEQMKGFPPEL KLAYAVRGNKCEYGRRLNSEQGRGLG V
2722	10773	A	365	252	934	LCASLRLLPAPMLSLSHRISPHWPVGVH YGC*GGRSGSDIGSCRETGLCRGFSPGCI KTSTSPWAPAG*APSTGPSGQETCTAHS PFIPAPA*AQGLKF*GVTESICAGAAGTA GGTETAVSAGSPAGQAQPGGAGQSLSA GSQMA*GSDHPGPIWQTC*SVQGAFLD G*GG*LHPHP*GPATLPEGGGGVCPAA KNASGATREVPVLQAVHAPGATWLRP P
2723	10774	A	3650	1	2613	

2724	10775	A	3651	3	550	LCSSR/DEKFKALCNLP/AITMAQAMIF CHTRKTAISWLAELSKEGHQVALLSGE MMVEQRAAVIERFREGKEKVLVTTNVC ARGEQRTCPTWSARLGVPGPIRARNPCI QGSRMVSGRWVGLVTLFLSRDCLDFP EVVRTHTCQVRWLMIPAIPRQENCLNPG DRGCSEPRMCYSTPSWVTE
2725	10776	A	3652	1	1571	CRGAGAEPAANPRSPRLVPSLEYTSTSV PPAPGTMATDSWALAVDEQEAAAESLS NLHLKEEKIPDTNGAIVVKTNANAECT DEEEKEDRAAQSLNKLIRSNLVDNTNQ VEVLQRPNSPLYSVKSFEELWLKPQLS QGVYAMGFNRPSKIQENALPLMLAEPQ NLIAQSQSGTGKTSPLVLAMLSRIVEPI RPDTPQCLCLFPTVEAGGFKQGKVEQM GKFYPELKLAYAVRGNKLERGQKISEQI VIGTPGT/VGLNWCFQLKFDPKKIKVVF LDEADVMIATQGHQDQSIRIQRMLPRNC QMLLFSATFEDSVWKFAQKVVPDPNVK LKREETLDTIKQYYVLCSSRDEKFQAL CNLYGAITIAQAMIFCHTRKTASWLAEE LASKEGHQVVMLSGEMMVEQRAAVIERF REGKEKVLVT/TPNLCSRGIDVDQVSVVI NFDLPVDKD/GNPDNETYLHRIQRTARF GKARGLAIVNMVDSKHSMNILANRIQEH FNKKIERLDTDDLDEIEEN
2726	10777	A	3653	3	421	
2727	10778	A	3654	209	435	
2728	10779	A	3655	126	775	APAKVRTAQEDRDTFSSQRTRWKEQNTI DNMALLGPKGLLFLAAFIITSDWIPLGV NSQRGDDVTQATPETFTEDPNLVNDP ATDETVLAVLADIAPSTDDLASLSEKNT TAIECWDEKFTCTRLYSCASGPVNQMH FIQLCFHPVLRMYIVQPRENCSSVLVC KGTPKPMKDELCRQMAGLPPLGRLRRP QLLPDFPPCENVDLQRPNGL
2729	10780	A	366	169	457	SLEVS LGDHFQKCRFLEKRERFWKGMFS FCSMAVSGFLAAGAGLKPRSG/WH*VFH SPRRSWTENFKFORDEVASPLGAWRAL TKEKGGAQPLEGL
2730	10781	C	3660	162	425	MVGPSLHAGXXXVYIPRFLYIRSWLPCIF FSGGVTGNIGRQLAMGVPEKPIVIESSK PXILESXGRFLEENLXLVDYXKGLSFFLK *
2731	10782	A	3661	89	308	
2732	10783	A	3662	2	454	
2733	10784	A	3663	570	1418	PMPLRHDHFWSCSAHSAARRRGPPRAIA AGLAAKVGEMIVFVSGPSLMAVLSASD ADPAPRGRSAVKSGPYPGSPYPNTWHHS LMQKSLVLFVSGEVLALVLNLLQIQRV TLFPEEVIATIFSSAWWVPPCCGTAPAD VGLLYPCIDSHLGEPHKFKERMGOVSMR CIAVFVGINHASAKLDFANNVQLSLTLA ALSLGLWWTFDRSRGLGLGTIAFLAT LVTQFLVYNGVYQYTSDFLYIRSWLPC IFFSGSVTVGNIGRQLGYGVFLEKPHSD
2734	10785	A	3664	195	462	RIFSMTSGRLRWRCTWRPATALWSASLR LGTSSMHPSPRSISLP/PVHVHTHNSGKE VLGLQVQRSRSGTGPAQSAGSGAVQG GNWCIF
2735	10786	A	3665	12102	12327	
2736	10787	A	3666	535	992	RIFSMTSGRLRWRCTWRPATALWSAISL RLGTSSMHPSPRSISLPLSMMLSPLPS NTRGLSPTALVRSPNSEHATSCPARLHL WRCRAPLRSPSPLGRLPGATPGVPSHVH THNSGKEVLGLQVQRSRSGTGPAQSQA GSGAVQGGNWCIF
2737	10788	A	3669	76	419	

2738	10789	A	367	186	370	QIRETS GTGT*YTSASQSAGIEVSHHAR QMFQFYSQKYTL PNCKL*ILMFKIKFFL TQK
2739	10790	A	3670	71	350	AFIPAMAELIQKKLQGEVEKYQQLOKDL SKSMSGRQKLEAQLTENNIVKEKRYES QLRDLERQSEQQRETLAQLQQEFQRAQA AKAGAPGKA
2740	10791	A	3671	334	1191	GLLPHLGPRVQRLPRLSLSTLACGLTRGP HPFLLPQIHHLTRIVGIGGTFDVSKLPFL SSPDLSKMSGRQKLEAQLTEYNIAKEV RDWDLWGEEGPVLAMVLITYVPSLHQE LALLDGSNVVFKLLGPVLVKQELGEARA TVGKRLDYITAEM*VFIPPPCAAPCDASE PLE*RC*TIAEQLSIVAPSPVPPTLSFPF*P PFFSLPWISRFSTYLFASFSTLHSESY*FLP FCLSPLSLLSKRYESQLRDLERQSEQQRE TLAQLQQEFQRAQA AKAGAPGKA
2741	10792	A	3672	210	617	AFIPAMAELIQKKLQGEVEKYQQLOKD LSKMSGRQKLEAQLTENNIVKEELALLA DGSNVVFKLLGPVLVKQELGEARATV GKRLDYITAEIKRYESQLRDLERQSEQQR ETLAQLQQEFQRAQA AKAGAPGKA
2742	10793	A	3673	3	266	
2743	10794	A	3674	31	500	ARVTA AVSAAAVAKRVWRDGFDCSGY YSLTTILLVQPTKRPEGRTYADYESVNE CMEGVCKMYEEHLKRMNPNGPSI/TH NTTSQLDFDIDLADLSCLVYRAIDTQT YQPYNKDWIKDEDPTVLLSSGKAQQA REIIVVGSHWGGWGGAWDTGV
2744	10795	A	3678	1	134	
2745	10796	A	3679	162	437	RRGLFPAGPGPRQEPSRASSPMPSELRN IKD\FLTARRKDAKS\VIKKNKDNVAK FKVRCRYLLHPWSSPDKEKAELKQKS LPPRFGK
2746	10797	A	368	150	799	QC*DPETSETV*EKL RAGRHRQRCCHGGQ SCFDKSATRALPPPRKWRHRGTRCAATK RTL GEMAVLGP*E*RQPEEFPTTSILA EPTVLSRRKCRPSEKRGSA TEKFGATSA VTENPPLGAAGERANKTL/RCCHRD TDF RTPASDGERRRSHTGEPINRSLAMRMGK GGSIGTENRADWAGPGCKVCESCS/RVL HLCVYGSHHRIWHMEGYQHMLV
2747	10798	A	3680	60	216	
2748	10799	A	3681	505	794	NVVECLFKDALPQLSADRFLASSILLGDL GVEEVHFSVSNLTGEEL WHLLRSTSLGI ASPPHIEVPFLEV DGDRTKTQVFPLTNLH VRAHASAHAS
2749	10800	A	3682	685	1484	LRLTFPEFSHTKVRTMSLFPSPPLLLLSM VAASYSETVTCEDAQKTC PAVIACSSPGI NGFPKG DGRDGTKGEKGEPGQGLRGLQ GPPGKLGPNGPGSPGPGKQKGDGP KSPDGDSSQAASERKALQTEMA RIKKW LTFSLGKQVGNKFFLTNGEIMTFEKVKA LCVKFQASVATPRNAAENGAIQNLKEE AFLGMPDEKTEGQFVDLTGNRLTYTNW NEGEPN NAGSDEDCVLALLKNGIQWND SPCASTSHLAVCEFP
2750	10801	A	3683	427	751	
2751	10802	A	3684	31	558	EFVPHSEKMLYDQAQLAVAYLYAFQLS GDEFYSDVAKGILQYVARSLSHRSGGFY SAEDADSPPERGQRPKEGAYYVWTVKE VQQLLPEPVLGATEPLTSGQLMKHYCL TEAGNISPSQDPKGETCRARMLLDRPVL RWELTAARFGLDV/EKAVRTLLNTGLEK LFQARKHRPKP

2752	10803	A	3685	3	399	KCVCLLTAFSERMRRVPVALPEMVRALS AQQQTLKQIVI/VWRPSGQRTPKALVQC VHSVYIPNKVLILADGDPSSFLSRQLPFLS TLRRLEDQATAYVCENQACSVPIITDCE LRKLLHPLTCPYPLGWGR
2753	10804	A	3686	2	2238	NVAAMLGARAWLVRVLLPRAGAGLA ASRRGSSSRDKDRSATVSSVPMAGGK GSHPSSTPQVRPNRLIHEKSPYLLQHAYN PVDWYWPWGQEAQFDKARKENKPIFLSVG YSTCHWCHMMEEESFQNEEIGRLSEDF VSVKVDREERPDVDK VYMTFVQATSSG GGWPMNVWLTPNLQPCVGGTYFPED GLTRVGFRVLLRIREQWKQKNNTLLEN SQRVTTALLARSEISVGDRQLPPSAATVN NRCFQQLDEGYDEEYGGFAEAPKFPTPV ILSFLFSYWLSHRLTQDGSRAQQMALHT LKMMANGGIRDHVGGGFHRYSTDRQW HVPHFEMLYDQAQLAVAYSQAFQLSG DEFYSDVAKGILQYVARSLSHRSGGFYS AEDADSPPERGQRPKEGAYYVWTVKEV QQLPEPVLGATEPLTSGQLMKHYGLT EAGNISPSQACELADKGHSPQDPKGELQ GQNVLTVRYSELTAAARFGLDVEAVRTL LNSGLEKLFQARKHRPKPHLDSKMLAA WNGLMVSGYAVTGAVLGPRQLINYAT NGAKFLKRHMFVDASGRLDADLLHR/H LGGLWSTATPPCWGFLEDYAFVVRGLL DLYEASQESAWLEWALRLQDTQDRLFW DSQGGGYFCSEADWGAGLPLRLKDAQ DEAEPSANSVSAHNLLRLHGFTGHKDW MDKCVCLLTAFSERMRRVPVALPEMVR ALSAQQQTLKQIVICGDRQAKDTKALGA VRPLCLHS
2754	10805	A	3687	5	188	
2755	10806	A	3688	132	341	GFTSFISRLSCLSFCLLLET/CPVTCWCWE APRCNQKCTDPAARRPDPQTASQDRLR CAPCTCHQPLASR
2756	10807	C	3689	4	204	MCFQRKSYFHIQTLYCPLICISALRYSTG PAPAMWKCHTAPVQKDWLTPLPITLISS PNFLTINL*
2757	10808	A	369	1200	1678	RYKLLSYRKPEAIEQKENIPFQNLRSFS KNLHFWK*SPKETSRLYHECLQLNSSCLI LTLAYPVQII/CHLFLDEPGRMSDQORRAQ NVPEMGFHHVGG/ACLNLSSTRPASAS QSARIIIVSHHARQMFQFYSQKYTLPC CKL*ILMFKIKFFLTQKQN
2758	10809	C	3690	57	209	MEVXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXGRLFLGPL*
2759	10810	A	3691	363	424	
2760	10811	A	3692	2	264	KFSLIKLRKENFPTARICRLVYPLYPLKIF IFPKALNFCREVGPIPPPKKIGSFPKIPKV AFNRPLRKKIIPSQPALNWGPVRVP
2761	10812	A	3695	2	201	GRVGSDSCQRQQGDTKRRRLSSYPWR RRQRWRRRRVTSSRRKPQFLRQRQRPRQ ARRRWRATRFA
2762	10813	A	3696	31	445	EKAVVTSAASSLVYTVYTAQPAPRSFHP FCSTWSAKEPNTTAGEGGSTNECQCLSA /CPGANCPGLGTLKSPQNCPSSSLPRPPLP ACRGSYESVWARLLQSVHAIGQRRRES WSPKLYWVHPPQEVVGAFTFLFLV
2763	10814	A	3697	73	404	AYSRTSSLSTMNQTAILICCLIFLTLGI QGVPLSRTVRCTCISISNQPVNPRSLEKL EIIPASQFCPRVEIATMKKKGEKRCCLNP ESKAIKNLLKAVSKERSKRSP
2764	10815	C	3699	250	495	
2765	10816	B	37	44	307	MVAVSCRQRPTSRPAWGKVGGAHAVRS MCAEALERMFLSFPTTKTYFPHFDLSHG FCPLRATGKKVADALTNVAHVGRHA

						QRRCPP*
2766	10817	A	370	1	1107	MTLEATHLLLRVLLVLLASGGSLFQSP VKSILGVAVTVVLLLLLALLNRYLQK ARGRARKPYTEDVSVDKKTETWEWAR GEGESYHVYDDVQKEKTTDRMIRSSM CVHKINTSVSMCAQETPNSSKAKLGQK IPVQKGDEILHKALCFCPWLKGKGMEPL RLILLFVTELSGAHNNTVFQGVAGQSL QVSCPYDSMKHWGRRKAWCRQLGEKG PCQRVVS\STTCGLLSFLRRWNWEHSHS QTIPWGGTLTITLRNLQPHDAGLYQCQS LHGSEADTLRKVLVEVLADPLDHRDAG DLWFPGLDRASRMPMWSTASPLRVAR EGR*WEEKPRRSPTRDQPSLHTCHLATR TPCSALARDYSA
2767	10818	A	3700	226	854	RVPGTLMMSGIALSRLAQRKAWRKDH PFGFVAVPTKNPDGTMNLMNWECAIPG KKGTPWEGGLFKLRMLFKDEYPSSPPKC KFGPPLFPNCVTSGASCL\SFLEEDKDW RPAITIKQILLGIQELLNEPNIQDPAQAEA YTIYCQNRVEYEKRVRAQAKKFAPSCRS SLEPSRTWAVLLLSLRPQVSISVLRHFLC VYMAFCLCCCLE
2768	10819	A	3701	813	1637	TCQGIASRLAQEYKAWRKDHPFGYN AVPTKNPDGTMNLMNWECAIPGKKGT PWEGGLFKLRMLFKDDYPSSPPKICKFE PPLFSPRIVYPSGAKCACPSLEE\DQRTW RPSPTIQTFRLLRNYRNFLKWPNINQDP SFQAEAYTIYCQNRV\ESYEKRVPTKP RKFCAPHKQRPCGNRQKERDWFGQELV YNIFCKSKVCSHTMTSHLGGVGRAPSSH CPPRGVRSRIRLNCVPSIQGSSFLRCFCIF GLLCKTRLFILMSSISTAVKL
2769	10820	B	3702	236	362	KQEPQIPCQGGKDAAVLQGSQPSLAGIR TTRLRDPSKKWPKGX*
2770	10821	A	3703	1	808	TPPFLAMAPALLLIPAA\ASFILAFGTGV EFVRFTSLRPLLGGIPESGGPDARQGWL AALQDRSILAPLAWDLGLLLFVGQHS MAAERVKAWTSRYFGVLQRSLYVACTA LALQLVMRYWEPIPKGPVLWEARAEPW ATWVPLLCFVLHVISWLLIFS\FLVFDYA ELMGLKQVYYHVLGLGEPLALKSPRAL RLFSHLRHPVCVELLTVLVVPTLTGDR LLAFLLTLYLGLAHGLDQQLRYLRA QLQRKLHLLSRPDGEAE
2771	10822	A	3704	221	1728	GQAGCSDTMGSCCCLNRDSVPDNHPT KFKVTNVDDGVELGSGVMELTQSELV LHLHRREAVRWPYLCLRRYGYDSNLFSP ESGRRCQTGHGIFAFKCSRAEEIFNLLQD LMQCNSINVMEEPVIITRNSHPAELDLPR APQPPNALGYNVSSFSNGCPGEGPRFSA PQRLSTSSLRHPSLGEESTHALIAPDEQS HTYVNTPASEDDHRRGRHCLQPLPEGQ APFLPQARGPDQRPQVFLQPGQVKFVL GPTPARRHMKCQGLCPSLHDPHHNN NNEAPSECPAQPKCTYENV\TGGLWRGA GWRLSPEEPGWNGLAHRRRAALLHYENL PPLPPVWESQAQQLGGEAGDDGDSRDG LTPSSNGFPDGEEDETPLQKPTSTRAAIR SHGSFPVPLTRRRGSPRVFNDFRRPGPE PPRQLNYIQVKLKGWGGDRPKGPQNP SPQAPMPTTHPARSSDSYAVIDLKKTV MSNLQRALPRDDGTARKTRHNSTDLPL



2772	10823	A	3705	1143	1849	PAILSPNLDDLNFVSRAVPTLAPSAPSA SSSPARIPAATRQGRSPRIPPAPSNEASP APGRPRVPGAA\PRFPKPTIQASGADRA VDCGILKLQKSPARLARPRWPRRPSKRF WSAAGSVEEQPKPPKAP/PAKSPEQSPQL SVLPLATITPQAYGASFEKMKNLKTRRG GRSRWHFFPNVIPQAPSLKWGFQTSAS SAEVFHVDRSLASHKMGFGRRPRSPLW APPFWNPRH
2773	10824	A	3706	130	360	SLPKKKNPDLHGFGVGFYQTFKEKIPASS SSNKF/PQDIYEASITL/IPKPDQDFRKKEN CSSVSLIIFPEIINKILEN
2774	10825	A	3707	46	292	DQASSNGVVTMIARRNPDTLRLFLPDEAR SLPPPKLTDPRLLYIGFLGYCSGLIDNVI RRRPIATADKKTYGEIFEKHFPIR
2775	10826	A	3708	269	476	STCLGLPRCWNYRREQRLVYM*FVHL YYF
2776	10827	A	3709	448	894	DQASSNGVVTMIARRNPEPLRFLPDEAR SLPPPKLTDPRLLYIGFLGYCSGLIDNVIR RRPIATAGLHRQLLYINGLFFLLGYYL VKREDYLYAVRDREMFYGNLHPEDF FLKEDKKTGEIFLKNSHPTLKVQKC LAPSFH
2777	10828	A	371	2	1309	EQQDLQDPLEVFHPTVEAAEALHIQEP GGEPSQPTQLPGGAPNTRPPHPQALWS V*RAPEQELHQDGRQPTG*QWLRTCSLG WPEAQLPAHLIGQADWPSQRPP*DPE*TP PRPQNPGPSNWRCTCFATPCTGWA*AT TQIRMIENGKPELPGPSGEVPLGQQQVG PGVPSGFGPQAPPGLILHSNNIHQSGV FNEFLFPWFGGEGAGPYYNHGSASSTP CPTGRCKPATFRRRH*PPGHPVWATTKS RGM/TAATAGPQWGLGNTARHPDGEA EPGS*ARAQLASNPAPHLRVP*PQLRLPH SPPFPWVPKGCRWTQRPEGMTCYAWAH ELRPALPPQPPRGTP*SFFLVHSPACPAQ ALPPNLYCPGGGWEVEAQHPAQMTVPF LEAPHPHWPTGG*VSPYPSGPAQGGGAAS EVGGCLSIKETPCNV
2778	10829	A	3714	1	948	
2779	10830	A	3715	644	2034	AIETQAITDNCSEERKTFNLNVQMNSMD IRCSDIHQGDTQGPSVIAFISYSSLGNINA TFFEEMDKKDQVYLNQVVSAAIGPKR NVSLSKSVTLTFQHVKMTPTKKVFCVY WKSTGAG/CSQWSRDGCFLIHVNKSH MCNCSHLSSFVLMALTSQEEDPVLTVI TYVGLSVSLCLLALAALTFLCKAIQNT STSLHLQLSLCLFLAHLFLVAIDQTGHK VLCIIAGTLHYLYLATLTWMLLEALYL FLTARNLTVVNYSSINRFMKKLMFPVGY GVPVTVVAISAASRPHLYGTADRCWLH LDQGMWSFLGPVCAIFSANLVLFILVF WILKRKLSSLNSEVSTIQNTRMLAFKAT AQLFILGCTWCLGLLQVGPAAQVMAYL FTIINSLQGFIFL\VYCL/LSAQQVQKQY QKWFREIVKSKSESETYTLSSKMGPSK PSEGDVFPRTSEKIL
2780	10831	A	3716	1	451	FFFFFFVRQDLALSPRLECNGIIFAHCNLC LPDSSDPP\TSAFQVARTTGRNYAQLNL YFFVETEFAMLTRAGLNLSSRGPLASA SQSVGDYR\NSHHAQLIFCIGRDRVSL W\CPWSQTPEFKRSACLKPCWDYRGEP PHPVPSAL
2781	10832	A	3717	1	5898	
2782	10833	A	3718	1	333	

2783	10834	A	3719	1	5699	VNDNTNTAGSPGEVLSRRCVNLKLTALR PDMWPKSELKLQWFDKLLMTVEQPNQV NYGNICTGLEVL SFLT V LQSPAILSSFKP LQRGIAACMTGNTKVLRAVHSLLSRL MSIFPTEPSTSSVASKYEELECLYAAVGK VIYEGLTNYEKATNANPSQLFGDQGSW VTLAPGTL MILKSACSNNPSYIDRLISVF MRS LQKMVREHLNPQAASGSTEATSGT SELVMLSLELVKTRLAVMSMEMRKNFI QAIL
2784	10835	A	372	475	928	NLVACSLPISPETLSPVPLTPKPSGLLALS LGLAFLSCPLATPSPLPTKPGTAGPPQ PCPCSGLAPQTL YLSRRRLGGWRPSIPAQ MTPINRPESQTPVFLEAPHPHWPTGG*VS PYPSGPAQGGGAASEVGGCLSIKETPCNV KKKKKK
2785	10836	A	3720	109	11749	ARRGERRLVELMDPILFSGEANQPKRKM AFVATQGATEVDQTTLMKKYLQFVAAL TDVNTPDETKLKMMHEVSENFENGTSPP QYSTFLEHIIIPRVL TFLQDGEVQFLQEK AQQLRKL VLEIIHRIPTNEHLRPHTKNVL SVMFRFLETENEENVLICRLIIELHKQFR PPITQEIHHFLDFVKQIYKELPKVVNRYF ENPQVIPENTVPPPEMVGMITTIAVKVNP EREDSETRTHSIIPRGSLSLKVLAEAL
2786	10837	A	3721	106	11708	
2787	10838	A	3722	2	581	RRFERRPMPHEVYTPPLVLQPLSLVSP WKSSQHIFRVLNTNID\GRRKNSPLPITA HLRVWARRYAHVVLRKADIDLTKIRAG EL\DEDEVERVIT/ISMQNPRQYKDKPTG FFEQDKKDVKDWKITARVLAQVWWTTS SRE RPGSRLEERFRAHKKGLRHFLGGLS CSEGQAHPRTWPAVGRHRGASAGARR
2788	10839	A	3723	6	297	GIRPRKREQAASEADKGPKEPLEYGKA KLSFQSCCEGKAFQRHDHLARHRS L L H LKDKARPFQCRYCVKSFTQNYDLLRHE RLHMKRRSKQALNSY
2789	10840	A	3724	201	403	
2790	10841	C	3725	78	422	
2791	10842	A	3726	591	966	EVLVTMALTRPSAASSKPQSSPWQCPL DSSHWPPSVAHLPTSYSGRE\GDKHTLSK RELKELIQKGAPPLASKLQDAEIARL M EDL\DRNKDQ\EVNFPRKYVTFPGGAF ESTIEGLKRVEK
2792	10843	A	3728	165	828	KEKARGRPKPLLLPITSATTAMGLTISS LFSRLFGKKQMRILMVGLDAAGKATIL YKL\KLGEIVTTIPITIGFGVKTIGYRNICF HSMGMLGGPDRIPLWKHYFQ\NTQGLI FVVDSNDRERIQEVADELHKMLLVDEL RDP\VLLLFANKQD\LPNAMAISEM TDK LWLQSLRNRTWYVQATCATQGTGLYEG LDWLSNELSKQLNEIGYLTQGPWFG
2793	10844	A	3729	191	1574	GVS RQDLTRLFGFSSPQPLKKKLD AWLS EDMNYARFITAASARRNPSPIRTMTDILS RGPKSMISLAGGLPNPNMFPFKTAVITVE NGKTIQFGEEMMKRALQYSPSAGIPELL SWLKQLQIKLHNPTTIHYPPSQGQMDLC VTSGSQGLCKVFEMIINPGDNVLLDEP AYSGTLQSLHPLGCNIINVASDESGIVPD SLRDILSRWKPEDAKNPQKNTPKFLYYC FQMGNPTGNSLT SERKKEIYELARKYD FLIIEDDPYYFLQFNKFRVPTFLSMDVDG RVIRADSFSKIISGLRIGFLTGPKPLIERV ILHIQVSTLHPSTFNQLMISQLLHEWGEE GFMAHVDRVIDFYSNQKDAILAAADKW LTGLAEWHVPAAGMFLWIKVKGINDVK ELIERKRPLKMGVL\MLP\GNAFLRRIAQ LPSPYLRASFSSASPEQMDVAFQVLAQ LIKESL

2794	10845	A	373	2	643	PICLFSRPTLRPSRSKVSLEGRGANMAA RWRFWCVSVTMVVALLIVCDVPSASAQ RKKEMLVSEKVSQLEWTKRPVIRM NGDKFRRLVKAPPRNYSVIWMFTA/LQ LHRQ/CVVCKQADEEFQILANSWRYSL SAFTNKDIFFAMVADFDEGS/DMYFQML KH*ISAPNFPSTFLQKGKPKRGDTYELQ VRGFFQLRQISPWIAADRTDVQY
2795	10846	A	3730	2	454	RSFFFFCEVGSWVGS MRVVMARLLSEG EQCIPTACAAFAQQPGGRPRRLAGVGE GGPQCSWVNYRCTLEFLVSLGTDLAR GRGNSATGPITAPADSKQLSCKTFIAVLS LSKEAGFCNVVQGWVSTSWGSSSPVPO FFPKLLEFTGQ
2796	10847	A	3731	379	640	DGVSLCYPGWNTVAQSQLTVGSISWAQ VILQTPPRVAVAPGRITTVYRDRVSLCC PGWSGLIVLGLKPPRVLGITGMGSPQPRP GI
2797	10848	A	3732	373	598	YPCPPE/RCAQRHGQACLLPSLERKCVIS LPPSPHQTFAGPKGLGHGDALSGLIWP QTPSCEPTQTPKQSNQLVN
2798	10849	A	3733	2	444	
2799	10850	A	3734	151	485	SPRGHYQLLLSGRALADRYRRIYTAALN DRDQGGGSAGHPAS/RSENLENTVIIPDI KLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPPIN
2800	10851	A	3735	1	176	
2801	10852	A	3736	1	6570	
2802	10853	A	3737	114	14222	AAPVAAPGALFMPVPDGSVAAAGLGLG LPAADSPGHYQLLLSGRALADRYRRIYT AALNDRDQGGGSAGHPASRNKKILNKK KLKRKQKSKSVKTRSKSENLENTVIIPD IKLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPPIKL PKIIEVGLCEVFELIKETRFSHPSLCLRSL QALLNVLQGGQPEVLQSEPPEVLESFQ LLEITVRSTGMNDSTGQSLTALSCACL
2803	10854	A	3738	373	662	CRKNSCYQAQNFNLRIPFSTTKLINLFHF *NDSQKST*/SDSHLARSSQFCSLN*NY*I *TAKSHDVVCTRQHFPSSLSESYIWHVKE KKYNPTAAAI
2804	10855	A	3739	29	658	LSVASLSFLPNASAEDTMSRLSRSLWA ATCLGVLCVLSADKNITTQHPNVTTLAPI SNVTSAPVTSPLVTTTAPETCEGRNSCV SCFNVSVVNTTCFWIDCKDESYCSHNS TVSDACQVGNTTDFCSVSTATPVPTANS TAKTHSSPPLLQLPRQLLHQGTTNNTV NSVTSQPVRKSTFDAASFIGGIVLVLEIRC HTRNYIPDLKK
2805	10856	A	374	562	766	GKSISRYPLYPFVIFYFYFLETESCSSAQA GVQWRNLGSLQSPPSGSSNSPASAS*VA ETTGERHHAQ
2806	10857	A	3740	1	183	KKGLSPEQDIKFSGHVSWVGKTSMEVK MQMFQPAFVNPLIPESPEEEELFRQGEC TLICL

2807	10858	A	3741	185	1548	LNQGPQNPKKQGNFHIHETSSSIHANHV RDKLREIVKASTNWRDHVKAMEERKLL HSFLAKSQDGLPPRRMKDSYIEVLLPLGS EPELREKYLTQNTVRFGRILEDLDSLGR FLFCYMHNKIHSKMSPLSIVTALVDKID MCKKSLSPQDIKFSGHVSWVGKTSME VKMQMFQLHGDEFPCVLDATFVMVAR DSENKGPAFVNPLIPESPEEEELFRQGE NKGRRIAFSSTSLKMAPSAEERTTIHE MFLSTLADPKTISFRSRVLPNSGSGWEN SKLKEFWELCAHPSGSRNIFNRILVGFLM RKAYELAWATACSVFGSGRPFVGAVDV IMFQNPVEVGALLFLSSQVCFTQNNYI QVRVHSEVALPLQEKPAIQPHPMSEFHH RFHVGGKESAPLVPFKTYGESPCCTLD GQRAFPPTMSGPATLEKGPTLVEPLRTP TIC
2808	10859	A	3743	2	286	TALQRHSEPSKLTFTVGELAHGRFSAK/M GTLALGVYHGLPASHMELAQELMETCY QMNRMETGLSPEIVHFNLYPQPGRRDV EVKPADRHNLRLP
2809	10860	A	3744	1	287	
2810	10861	A	3745	1	339	RPLLAFRLEEEQKMRPEIAGLKPANPPVL PAPQKADTDPENLPGMG*PSGQPRVQL CPGS*SLRCPQSKGLEGLP*LQRPEAPGL ALVFTSWTQGSSWPPRRGLGGLDGKSV
2811	10862	A	3746	2	991	
2812	10863	A	3747	1	2296	FRVDGAAMAACEGRRSGALGSSQSDFL TPPVGGAPWAVATTVMYPPPPPPPHRD FISVTLFSGESYDNSKSWRRRSCWKKWK QLSRLQRNMILFLLAFLFCGLLFYNLA DHWKALAFRLEEEQKMRPEFAGLKPAN PPVLPAPQKADTDPENLPEISSQKTQRHI QRGPPHLQIRPPSQDLKDGTQEEATKRQ EAPVDPRPEGDPQRTVISWRGAVIEPEQ GTLPSSRAEVPTKPPLPPARTQGTVPVH LNYRQKGVIDVLLHAWKGYRKFAWGH DDLKPVSRFSSEWFGGLTLIDALDTMW ILGLRKEFEEARKWVSKKLHFEKDVDVN LFESTIRILGGLLSAYHLSGDSLFLRKA DFGNRLMPAFRTPSKIPYSDVNIGTGVA HPPRWTSdstVAEVTSIQLEFRELSRLTG DKKFQEAVEKVTHIHGLSGKKDGLVP LFHQLPTVGLFTHLG\VF TLGARADSYE YLLKQWIOGGKQETQLLEDYVEAIEGVR THLLRHSEPSKLTFTVGELAHGRFSKMD HLVCFLPGTLALGVYHGLPASHMELAQE LMETCYQMNRMETGLSPEIVHFNLYP QPGRRDVEVKPADRHNLRLPETVESLFY LYRVTGDRKYQDWGWEILQSFSRFRV PSGGYSSINNVQDPQKPEPRDKMESFFL GETLKYLFLLFSDDPNLLSLDAYVFNTE AHPLPIWTPGLGWMAAGVGTSGGQRHL AGSVAFSKGPRRHRQPPSGPGSELGLGF LLVSALIRTP
2813	10864	A	375	23	483	NGVLLSSRLKCSGAISAHCSLCLLGSSNS PTSASQVAGITGAHHHTWANFCI/YFF*V EMGFHHVG\QAGLELLTSDDPSALASQS AGITG/GEHLRLAVTYLNKHERGSFLSSS CLPSAWWKWLCLCSCFWVPKCLALCHF KHYGRRKQVGHTSK
2814	10865	C	3753	150	584	MHPSCCPCICKPFSTLVKSHVTASASSVP DSTCLRRGQSQCEVVLWQDRVSFQARE LKAVINSVQTSSCFIRHLPRSVSSAIAEG VTSVAIISSSSPSAGGALLWSAPFFETQQT AVAPPASLETLGPHLQPHLLHTAGSFG**
2815	10866	A	3754	292	483	

2816	10867	A	3755	84	316	GGKLINIKYLFYTSY*FLSFPWHFLLAAS RAQQGEVMRLACRLDPKTSFQMAGEW LKYQLSTFLDIAGSVNWKFFSLL
2817	10868	A	3756	423	1186	
2818	10869	A	3757	222	435	PCFLALAVCCVSKKGADHSSAPPADGD DEEMMATEVTPSAMAELTDLGKCLMKH EDVCTALLITAFHSLAW
2819	10870	A	3758	1	936	MAEPFTKALDMLDAEKSAILGLPQPLLE LNDSPVFKTVLERMQRFFSTLYEN/CECP WVGLFI*CTEHYEALVSPILGPLFTYLHC GEDEAADENPESQEMLEEQLVRLTRE VMDLITVCCVSKKGADHSSAPPADGDD EEMMATEVTPSAMAELTDLGKCLMKHE VLSGTLADAVTWLFTSVLKGLQMHGQ HDGCMASLVHLAFQIYEALRPRYLEIRA VMEQIPEIQKDSLQDQFCKLLNPSLQKV ADKRRKDQFKRLIAGCIGKPLGEQFRKE VHIKNLPSLFKKTKPMLETEVLDNDGGG LATIFEP
2820	10871	A	3759	30	3498	VAIVRHFGQLILEHVVKFRWNGMSRLEK VYLKNSVMELIANGTLNILEENHIKDAL SRIVVEMIKREWPQHWPDMIELDLSK QGETQTELVFILLRLAEDVVTFTLPPQ RRRDIQQTLTQNMERIFSLLNTLQENVN KYQQVKTDTSQESKAQANCRVGVAALN TLAGYIDWVSMASHITAENCKLLEILCLL NEQELQLGAAECLLIAVSRKGKLEDRKP LMVLFQDVAMHYILSAAQTADGGGLVE K
2821	10872	A	376	129	365	NYTYTHLYANIFDTLEERGKFL/DKQNLK LEQTGKAQGFYDLLKKN**L*SLLTKK ASGRGPLLGNSFQF*RRKMTPTL
2822	10873	A	3760	1	168	PLKRSDCNDGRPTRPPTRPDTTVFTSNL KQTRMVHLTPVERVCRYCPVG/QGKPG
2823	10874	A	3765	1	234	
2824	10875	A	3766	1	1697	LRAAGGGRTMPSPFDEALQRVGEFGRFQ RRVFLLLCLTGVTFAFLVGVVFLGTQP DHYWCRGPSAAALAERCGWSPEEEWN RTAPASRGPEPPERRGRCQRYLLEAAND SASATSALSCADPLAAFPNRSAPLVPCRG GWRYAQAHSTIVSEFDLVCVNAWMLDL TQAILNLGFLTGAFTLGYAADRYGRIVY LLSCLGVGVGTGVVAFAPNFPVFVIFRFL QGVFFSLTWMTCYVIVTEIVGSKQRRIV GIVIQMFFTLGIILPGIAYFIPNWQGIQLA ITLPSFLFLYYWEVPESPRWLITRKKGD KALQILRRIAKCNGKYLSSNYSEITVTDE EASNPSFLDLVRTPQMRKCTLILMFAWF TSVVYQGLVMRLGIIGGNLYIDFFISGV VELPGALLILTIERLGRRLPFAASNIVAG VACLVTAFLEPIAWLRTTVATLGRLGIT MAFEIVYLVNSELPTTLRNFVSLCSSL CDFGGHAPFLFRLLAAVWLELPLIIFGILA SICGGLVMLLPETKGIALPETVDDVEKLG SPHSCKCGRNKKTPVSRSHL
2825	10876	A	3767	103	370	IGVPGAISASGRLAVALGTILSFSFSISE FFRFLRVVGQVDLSGDVVYCTYPLFIF LSALSLEDYSPETKVFK*LKTKHDSHMT GN

2826	10877	A	3768	97	1639	CPLQWICAINNISRQIYLTDNPEAVAIAKL NQTALQAGTPITSFGKKQESSCPSQNLK NSEMENENDKIVPKATASLPEAEELIAPG TPIQFDIVLPATEFLDQNRGSRRTNPFGE TEDESFEAEDQQQEVNEILSGKCCLPD SLLQQMFIVRFLGSMVKTSTTEVIYE AMRQVLAARAIHNIFRMTESHLMTVSQS LRAPGGRGGGGRSFSRLKCSCLPALKRA AGLPAQRLSSAKGQTASSESLTLVVPD GETPPSRNRQTPHTGEFQLASGHQHQR KVDKSTKMRKKQHRKAENSKNQNASPP PKDHNSLPAREQNWTENEFEETERGFR SDRENGTKLENTLQDIIQENFHNLARQA NIQIQEIQRTPQRYSSRRATPRHIIIRFTKV EMKEKMLRAAREKGQVVTHKGKSIRLT ADLSAETLQVRREWGPIFNNLKEKNFQP RISYPAKLSFISKGEIKFFTDKQMLKDVV TTRPALKELLKEALNMERKNQYQPLQK HTKM
2827	10878	A	3769	159	277	
2828	10879	A	377	67	224	
2829	10880	A	3770	1	474	HPPPTMALKRIHKELNDLARDPPAQCSA GPVGDDMFHWQA/TIMGPNDGPL/YQG GVFFLTIPFPQQITPFKP/PKVAFTTRIYHP NINHNGSICLDILRSQWSPALTISKVLLS/ ICSLLCDPNDDPLVPEIARIYKTDRKY NRIAR/WTQKYAM
2830	10881	A	3771	153	291	
2831	10882	A	3772	1	336	
2832	10883	A	3773	1	2336	MVRSWLTATSASQVQAILLPQPKTQLN FTVAJDFTASNGETRMSEKVGGNPLQPT SLHYMSPYQLSAYAMALKAUGEIIQDY DSDKLFPAYGFGAKLPPEGRISHQFPLNN NDEDPCAGIEGVLESYFQSLRTVQLYG PTYFAPVINQVASNSWSSVTLGTDSEPA VEVPQYVGIRLLVEGFTIKPMAMCHRR MGVRPAVPLLTQRGSGEGKDSGTPHSL HTKAQLPSPHVLRHQGQVLRQRHSLV GTKALSTGKALRTLPTAKVFISLP*GPW HRR*AGRDSCSAGR*AAEDSLRLFHSSV SHHWKP*SQWLL*SSAVSWEAEAGELLE PGRRLQ
2833	10884	A	3774	1015	1292	AGRAWWRMPYNPQHFRPRRVDHLRS GVQDQPGQHGETP/SLLKGPKIGWAWW RTPVIPATWEAEP/GELLEPRRQLQVSQ DRTALQPGQE
2834	10885	A	3775	183	511	SQHFRRLRWADCLRSIGDQPGQHGETL SLLKIQKLARSGGTCLQSOLLARLRQEN HFSLGGEGCSEPRSGHCTPAWARV/GHS VLKTNEQKNSSTLHTKSHWIFQFPGH
2835	10886	A	3779	60	361	
2836	10887	A	378	436	829	NLREFPWAPCPVLHYKFSSKLNWIPVT L*GGSHILPSATLKKQIYGEKKLKAADC DLQITNAQTKEEYTDNALIPKNSSVIVR RIPIGGVKSTSKTYVISRTEPAMATTKAV CKNTISHFFYTLLLPL
2837	10888	A	3780	2	616	ERTEKSDRAVRSGAPHADGSREAVFCAC IWRWRVGGGRSCCTGRPSWGASSAVT RGPHVTRSCRATQPSLQSSLASGYQLPA ALSSARSAFGPGKSGAGSATAKCSSGAP RGENPEEKETARIGPGKTKKMEQPYAR MEEEDR/HLWGGGEGPPSPARKIERGKA RPTCPLNFRMGYPNRPESMDGDGWM EMDMGKYSMGR

2838	10889	A	3781	2	888	RQRQRPRAGPAGRTGGQKAPGARVPPG PAMEGASFGAGRAGAALDPVSFARRPQ TLLRVASWVFSIAVFGPIVNEGYVNTDS GPELRVFNAGACRFGVALGLGAFL ACAAFLLLDVRFQQISSVRDRRAVLLD LGFSGLWSFLWVFGCFLTNQWQRTAP GPFTHAGDAARAAIAFNFFSILSWVAL TVKALQRFRLGTDMSLFATEQLSTGASQ AYPGYPVGSVEGTETYQSPPTETLDT PKGYQVPAYYRLAGTDQGSKATPPTQA PGSPGPPLGPSSSVPRTE
2839	10890	A	3782	1	1944	MADRTKELESIPDSNRNRSIMGNSRDF DFGTTIKQDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGQDFADFG TTIKQDFRLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQTASPRAL ADSLMQLARQVSRLESGQWTLVPNWNT TQPLSGDILLIYKGFCFRNHHQTGFLA GANQRGPLAATLSGPGGEGQSAVARLT GEKKN
2840	10891	A	3783	1	578	MGVEGRYPVSLSSDLEWRPDRCDASE VQRDPRAGSAPLAEDVQVDPKDSHSSS ERFLEQSHSSMERAFEADYGRSCDYKVG SPSYLDKLLWRDNKPHHYSEPKLILDLS HWKQAAGAPPTATGLADTGAREDEPAS LFLENPQGVKSTQGAQNTPARPPTPSA AWLPRPPPPGTLADSCSVTKWGQV
2841	10892	A	3784	861	2636	GARGRPLAETWPFLTAPVLPQQLQITEPT MAEKGDCIASVYGYDLGGRFVDFQPLG FGVNGLVLSAVIDSRACRKVAVKKIALS DARSMKHALREIKIIRRLDHDNIVKVYE VLGPKGTDLQGELEKFSVAYIVQEYMET DLARLLEQGTALAEHAKLFMYQLLRGL KYIHSANVLHRDLKPANIFISTEDLVKI GDFGLAKESLNQHYSHKGYLSEGLVT KWYRSPRLLSPNNYTKAIDMWAAGCIL AEMLTGRMLFAGAHELEQMQLILETIPVI REEDKDELLRVMPFSVSSTWEVKRPLRK LLPEVNSEADIFLEKILTFNPMDRLTAE GLQHPYMSPYSCPEDEPTSQHPFRIE DDIVLMAANQSLSNWDTCSSRYPVSL SSDLEWRPDRCDASEVQRDPRAGSAPL AENVQKDPRKDSHSSSERFLEQSHSSME RAFEADYGRSCDYKVGSPSYLDKLLWR DNKPHHYSEPKLILDLSHWKQAAGAPPT ATGLADTGAREDEPASLFLEMAQWVKS TQGAQSTPTRPPTPSAACLRPPPPGP GGRRRQPPVRPGRVHLRPEALHQARG PAGQ
2842	10893	A	3788	1	167	
2843	10894	A	3789	1	1685	NTIHDTEIYLSRCWVCCAVSAIARARA ALPNIVGEKGGAGSARSSPRRAAAECA QIPQPRRSPAVQAEPAARRSRFPFTLQGA FSSAIIAGIGGTSAAYYLRQKFGKDVKI DLFEREEVGRLATMMVQGEYEAGGS VIHPLNLHMKRFVKDLGLSAVQASGL LGIYNGETLVFEESNWFIIINVILVWRY GFQSLRMHMMWVEDVVDKFMRIYRYS HDYAFSSVEKLLHALGGDDFLGMLNRT LLET/LQKPGCSEKLLNEMIGPVMRVNY GQSTDINAFVGAGSLSCSDSGLWAVEGG NKLVCSSLQASKSNLISGSVMYIEEKT KTKYTGNTKMYEVVYQIGTETRSDFY DIVLVATPLNRKMSNITFLNFDPPIEEF HQYYQHIVTTLVKGELNTSIFSSRPIDKF GLNTVLTNDNSDLFINSIGIVPSVREKEDP EPSTDGTYYWKIFSQETLTQAQILKFLS YDYAVKKPWLAYPHYK/PPPEKCLLSF SHDDI VVILNGIECAASAIMMEMSAIAAII

						SHDRLYYLNGIECAASAMEMSAIAAH NAALLAYHRWNGHTDMIDQDGLYEKL KTEL
2844	10895	A	379	74	378	GCTKDSNIYFIKEHFQSVNNHIKRLISFL IRVM*LKPQQTINTPIRMAKI*KAENSK CWQECGAAVTLMH***V*LPLKSWHFL KLSTCLFYDLAIP
2845	10896	A	3790	52	264	QSFAPGPPFPFPPWGGRRAGGFPGPMG/ PPPGPPGGTSSSSKIPKFGRRGGPPFPPL PKRVRPGDFFYP
2846	10897	A	3791	627	1524	SHGENCKCPSTGDYRKLIYHLKGCQGLR NKGSSPFTSIVSAAKVCGAASESPSVKSL CLLVADQDFSFKAGQWVDFIPGVSVVG GFSICSSPRLLEQERVIELAVKYTNHPPA LWVHNTCTLDCEVAVRVGGEFFDPQP ADASRNVLVIAGGVGINPLLSILRHAAD LLREQANKRNGYEIGTIKTILOCKKYPAE LLFKKNILDLVNEFPEKIACSLHVTCTDY TNPMRNSKPYITEGRITEKEIRDHISKETL FYICGPPPMTDFFSKQLENNHVPKEHICF EEVVVGGRQRQKK
2847	10898	A	3792	331	756	WKRSLKYLWLLRSHNSHPSSSLTPSLSPS AEAEEDGDLQCLCVKTTSQVRPRHITS EVIKAGPHCPTAQL/IVSPRTASVSAPAPC LLCPSLPLMPFANPRTESHVSSLFPARA TLKNGRKICLDLQALLYKKIIEHLES
2848	10899	A	3793	3	402	HEETQPEFPFIALSTEILLEALPQHELRSRV LR/AQRPGLLFLGLLLLPLVVAFRRAEA EEDGDLQCLCVKTTSQVRPRHIHQGR* SKAGPHCPTCPT**PR*KNGRKIWLGTW QAPLLQ GK*FKETFWESLAN
2849	10900	A	3794	2	146	
2850	10901	A	3795	3	1034	SEFPARTPRRCPRSPGPAMGLTVSALFS RIFGKKQMPILMVGLDAAGK/TSHILYKL KLGEIVTTIPTIGFNVETVEYKNICFTVW DVGGQDKIRPLWRHYFQNTQGLIFVVD SND\REVRQESA\DELQKMLQEDELRLDA VLLVFSNKQDMPNAMPVSELT\DKLGL QHLRSRTWYV\QAHLLPTQGTGFVTMV LDWL\SHELFKALNQPWGRPLDARKSRC VQSPTMSQNSPTPRGKCPFPPTFSLPHSP QASAPCSCSLHVLVSVGAVEPLLSGHR GVPLFLPAGTYGRGFAGPRPPSSRGAGI WVSFFFFCFGCTLGGQVGRGKVRAFGW CYNVALDLE
2851	10902	A	3796	1536	1838	GLPQQTLKRIQQVLIKCCLAFLFLFFFF LRWSLALLPILE\CSGVISAHCNLRPLGLG DSLASASRVAGMTTGTCHHAQLIFCIFS RDGVSVLARTVWIS



2852	10903	A	3797	2	740	GRVGQSTSKVPKEGLLSLHLLCSTAHYQ KTAEMKSIYFVAGLFVMLVQGSWQSRSL QDTEKSRFSASQVADPLSDPDQMNED KRHSQGTFTSDYSKYLDSTRRAQDFLQ WLMNTKRNRRNNIAKRHDEFERHAEGTF TSDVSSYLEGQAAKEFIWLKGRGR DFPGEGRPLLKNLAGRHADGSFSDMN TILDNLPARDFINWLIRTKITDREITYIT YSEIIFTNITLLAHVGCLEMFKSW
2853	10904	C	3798	204	272	
2854	10905	A	3799	1	350	
2855	10906	A	38	3	203	HASDKMADKEKKKKESILDLSKYIDKTI RVKFQGGREGEGLPLSVPL*KFQINPA TEMMRTHAEA
2856	10907	B	380	1	483	MGQARWLTPVIPALWEAEAGGSRGPSA AGLLEFARGPLQTLFAWVSAVAEEQRI FVNRECCCLIVPLEVLSQRSTRPCEVSV PYWENAFQLGCSGTVTGTTVTLAEC KWLTTFQLVSLAAVAMDVLNTGDVV WLLNVAAEWNSFVNIPNDSLS*
2857	10908	A	3800	1	397	QRPI*PTKPIQQRVSKGHQPTRHDFQF LAAHETISRLVGFSAGQVQYLDLIKVD SKLFNEERLIDKTKVTYKWLPESESLF ASHASGHLLYLVNVSHPCASAPPQYSLK QGEFVSYYAAKYNDLFL
2858	10909	A	3801	1	2066	MAAGGAEGSGPGAAMGDCAEIKSQFR TREGFYKLLPGDGAARRSGPASAQTPVP PQPPQPPGPASASGPGAAGPASSPPAG PGPGPALPAVRLSLVRLGEPDSAGAGEP PATPAGLGSGGDRVCNFGRELYFYPGC CRRGSQRWHTPLTPFLPLKSIDLNKPID KRIYKGTQPTCHDFNQFTAATETISLLVG FSAGQVQYLDLIKDTSKLFNEERLIDKT KVTYKWLPESESLFLASHASGHLLYLVN VSHPCASAPPQYSLKQVWGFSAK SKAPRNPLAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLRVFHFDSMLLRGLMKS YFGGLLCVCWSPDGRYVVTGGEDDLVT VWSFTEGRVVARHGHSWVNAVAFD SLYTTRAEEAATAAGADGERSGEEEEEE PEAAGTGSAGGAPLSPLPKAGSITYRFGS AGQDTQFCLWDLTEDVLYPHPLARTRT LPGTGTTPPAASSSRGGEPGPGPLPRSL RSNSLPHPAGGGKAGGPGVAAEPTPFS IGRFATLTLQERRDRGAKEHKRYHSLG NISRGGSGSGSGGEGKPSGPVPRSLDPA KVLGTALCPRIHEVPLEPLVCKKIAQER LTVLLFLEDCHIACQEGLECTWPRPGKA FTDEETEAQTGEGSWPRSPSKSVVEGISS QPGNSPSGTVV
2859	10910	A	3802	1	1155	
2860	10911	A	3803	285	1444	LLISPGPRLGAPSFPMAGHLASDFAFSPPP GGGGDGPGGPEPGWVDPRTWLSFQRP GGPGIGPGVPGSEVWGIPPCPPPYEFC GGMAYCGPQVGVGLVPQGGLETSQPEG EAGVGVESNSD GASPEPCTVTPGAIVKL EKEKLEQNPEKISQDIKALQKELEQFAKL VKQKRITLGYTQADVGLTLGVLFQKVF QTTICRFEALQLSFKNMCKLRPLLQKWV EEADNNENLQEIKAETLVQARKRRTS IENRVRGNLENLFLQCPETPHWQQISHIA QQLGLKKHVVRVVRVWFCNRRQKKGK RSSDFAQREDFAAGSPFSGGPVSLFP LPPGPHFGTPGYGSPHFTALYSSVPFPE GEAFPPVSVTILGSPMHSN
2861	10912	A	3806	3	225	GQTSQHHVALRTTQHHWALGQHRVAL HTVEYYLALKRKEMDTGCKWMELEYI VLSGISQSQEDMHCMIPFVSGP

2862	10913	A	3807	874	1444	CQARPMPLRAFNPVSSFRWARGMTIVA ALMTVFFIMQLVGQVPAALWVIFGEDRF RWSATMIGLSLALFGILHALAQAFVTGP ATKRFGKQAIHAGMPNALGYVLLAFA TRGWMAFFPIMILLASGGIGMPALQAMW LAE*ITDTRANVKRLLQNVCDLSNNMN GLRFPFCVKSCGTPSVLTKRWH
2863	10914	B	3808	1	1917	MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIHAGGRRAGRLRAGVPTRGWM AFFPIMILLASGASGCRVAGHAVQAALRA QGLLKEAEHVESQSAETVLTDECQLLG YLDKGKRKRKEKAGSLQWAYMAIARL GGFMDSKRTGASWGALCAGAAVLFVK TDLGALNELQDEAARLSWLATTGVPC AAVLDDVVTEAGRDWLLGEVPGQDLS SHLAPAEKVSIMADAMRRLHTLDPATCP FDHQAKHRIERARTRMEAGLKDLMRD QDLIKRQDEDRSHDEQDDARRSPAWW RAYSAIAATDNSGRPVLVFKTDLGAL NELQDEAARLSWLATTGVPCA AVLDDVV TEAGRDWLLGEVPGQDLSLHAPAEK VSIMADAMRRLHTLDPATCPFDHQAKH RIERARTRMEAGLVDQDDLDEHQGLA PAELFARLKARMPDGEDLVVTHGDAAC RISWWKMAAFLDSSTVAGWDIALATRDI AEELGGEWADRFLVLYVLLSGTLGFEM TDQATPNLPSRDFDSTAIFYERLGFIVF RDAGWMILQRGDLMLEFFAHPGLDPLA SWFSCCLRLDDLAEFYRQCKSVGIQETS SGYPRIHAPELQEWGGTMAALVRIFVKE PYFCGVT*
2864	10915	A	3809	1057	1905	
2865	10916	B	381	119	955	MVSISRPRDPPASASQSAGITGPALGAEG ERAFHRHRVMIVTEGAPGGLSSGHLRDA MDSEAGTDDGCASHVRVVRDLKPSNI LYVDESGNPECLRICDFGFAKQLRAENG LLMTPCYTANFVAPEVLKRQGYDEGCDI WSLGILLYTMLAGYTPFANGPSDTPPEIL TRIGSGKFTLSGGNWNTVSETAKDLVSK MLHVDPHQRLTAKQVLQHPWVTQKDK LPQSQLSHQDLQLVKGAMAATYSALNS SKPTPQLKPIESSILAQRRVRKL PSTTL*
2866	10917	A	3810	1	2928	
2867	10918	A	3811	630	1159	GAPWGQVPAALWVIFGEDRF RWSATMI GLSLAVFGILHALAQAFVTGPATKRFGE KQAIHAGMAADALGYVLLAFATRGWMA FPIMILLASGGIGMPALQAMLSRQVDDD HQQQLQGLAALTSLSIIGPLIVTAIYAA SASTWNGLAWIVGAALYLVCLPALRRG AWSRATST
2868	10919	A	3812	1	3525	
2869	10920	A	3813	1	1606	MLMKAHKGVLGEQEKVPRRLMKVLKG VPGEQEKVLWEAREEGVSSRWGSPMG CEQRVWMGDEQAMEPLGLADGKLWRT FMGAADAERKEGRGMKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGVGQDIQPKR DLTRFVKWPRYIKLQHQAFLYKRLKVP PAINQFTQALDRQTATQLELAHKYRPE TKQEKQORLLAQAEKTAGKGDISTKRL PVLQAGVNWEDKSALAKLVEGIRTNYN ERYNEIHHHWGGNVLPESVARIKLLK ADGSLRLDFTVCKKAWIVSHPVSRKLP QQKRQNRKKRQEVQAWGSGPCLSLVV GSEPATGGSSCSETSGFGKSKVKETNP QPMATPTLEQGEVAHAHAIEPPACSHG QVPAALWVIFGEDRF RWSATMIGLSLAV FGILHALAQAFVTGPATKRFGEKQAIHAG MAADALGYVLLAFATRGWMAFFPIMILL ASGGIGMPALQAMLSRQVLSIIGPLIVTA

						IYAASASTWNGLAWIVGAALYLVCLPAL RRGAWSRATST
2870	10921	A	3814	1701	1904	
2871	10922	A	3815	1	427	MAKMKNQIIPSVGEKLEQQKPSYDARAF VTGPATKRFGEKQAIHAGMATDALGYVL LAFATRGWMAFPIMILLASGGIGMPALQ AMLSRQLTSIIGPLIVTAIYAASASTWNG LAWIVGAALYLVCLPALRRGAWSRATS T
2872	10923	A	3816	1	1629	
2873	10924	A	3817	1	1013	MMGLRNSYDVKERLKHQVRGGKAPKA VNSGKLLPFPRLKELAGVEGMGNCYLG RTQPGTRMQWSPMKLSVELRAGQSRLL RESKGKEIPEPRCAAVGGKEPEAKPPKV PRPMPLRAFNPVSSFRWARGMTIVAAL MTVFFIMQLVGQVPAALWVIFGEDRFR WSATMIGLSLAVFGILHALAQAFVTGPA TKRFGEKQAIHAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPALQAMLSR QVDDDHQGGQLQGSLAALTSLTSIIGPLIV TAIYAASASTWNGLAWI*PGMFIISNPY REHPLSFHRYHYPHEQKSPLHGGISDQT GKNRP
2874	10925	A	3818	1	2634	
2875	10926	A	3819	1328	2536	
2876	10927	A	382	1	662	LGSCVTQTGVQWCGHSSLRPQTQAQAI LLPCLSNWYKHEPLHLAYVTQFCFLS FFFGGGWSLALSPMLECGGVILAQCKL RLLGFTPFSCSLSPSSWDHRHPPCLANF LNF/SVETGFHFLAQDGLDLLTS/S/PPAS A/FPKCWDYRRDHRAQPM*CNSDVNSL MLPQMPQVK/AHQSPIGCPFRHTCRLG CPQTICTSHQLAANLEVPTMPSSSITH
2877	10928	A	3820	1	1594	MSAAPCSTVPSIDHPRAECGHTARDW QVAPPAAQSHDDDEEEEEEDEKEEEEEEE ELLAGSPYSPTVPCFPLECPLENGSRQ KQDKHTPGFKHKFQHAFHFFSPLATITHS FWVAEHSRLLEGKQGAQISPHLQVGPGL VWQGYLWQNREAGSSRDShLNMPCGM AAGHSHSGTLFSDQGLWEQCQLLKSTSV FARCHPLVDPEPFVALCEKTLCECAGGL ECACPALLEYARTCAQEGMVLYGWTDH SACSPVCPAGMEYRQCVSPCARTCQSLH INEMCQERCVDGCSCPEGQLLDEGLCVE STECPCVHSGKRYPPGTSLSRDCNTCICR NSQWICSNEECPDREGHNSRQREVALSA QVGCNHVTPALVSGQVPAALWVIFGED RFRWSATMIGLSLAVFGILHALAQAFVT GPATKRFGEKQAIHAGMAADALGYVLLA FATRGWMAFPIMILLASGGIGMPALQAM LSRQLTSIIGPLIVTAIYAASASTWNGLA WIVGAALYLVCLPALRRGAWSRATST

2878	10929	A	3821	3	995	TSPTATGPALVCYRASLVALREEDTRSQ EYVPPFRGNRDFAHVKKMGGLGLLAMD VPEELGGAGLDYLAYAIAMEEISRGCAS TGVIMSVNNSLYLGPIKFSGKEQKQAW VTPFTSGDKIGCFALSGTRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGMWMAFFPIMILLASGGIG MPALQAMLSRQVDDDHQGGQLQGSAA LTSLSIIGPLIVTAIYAASASTWNGLAWI VGAALYLVCPLALRRGAWSRATST
2879	10930	A	3822	1	619	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFFPIMILLASGGIGMPALQAMLSRQVD DDHQGGQLQGSAAALTSLSIIGPLIVTAIY AASASTWNGLAWIVGAALYLVCPLALRR GAWSRATST
2880	10931	A	3823	1	565	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFFPIMILLASGGIGMPALQAMLSRQLT SIIGPLIVTAIYAASASTWNGLAWIVGAA LYLVCPLALRRGAWSRATST
2881	10932	A	3824	1	934	MTMWVLHCAFTYFVSAWSKHGYAHAV TAKILYAGRIVAGITGATGAVAGAYIADI TDGEDRARHFGLMSACFGVGMVAGPV AGGLLGAISLHAPFLAAAVLNGLNLLG CFLMQESHKGERRPMPLRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGMWMAFFPIMILLASGGIG MPALQAMLSRQLTSIIGPLIVTAIYAASA STWNGLAWIVGAALYLVCPLALRRGAW SRATST
2882	10933	A	3825	657	7035	LRTCWHSDCQNTAADHSAQSGRRHRK PCNRCAPGSQNWAVPLLPDISCRTGCAV RKDRLIAGPIQ*N/LKTAVVGRQPYLTKL CLMLGCLGRMRWRCSTGWLRRLRTSSVQ CS*RISNRMSTGSMLETTWL*MKLQQVN GLGQGLIQSAGKDCDVQGLEHDMEEIN ARWNTLNKKVAQRIQLQEALLHCGKF QDALEPLLSWLADTEELIANQKPPSAEY KVVKAQIQEQKLLQRLDDRKATVDML QAEGGRI

2883	10934	A	3826	140	2298	LFPRLLSFLTTPPHCSFSICFVICSRITLILK GSSLITG/CTQFRLSETKEITNPNYAMRLYE SLCQYRKPDGSGIVSLKIDWIIERYQLPQ SYQRMPLDFLPLPAGALSLISKVTDNAN DSMEQGAETSQAGALGTLANVVTSLANL SESLNNGDTSEIQPEDQSASEITRAFDTL AKALNTDSSSSPSLADGIDTSGGSIHVI SRDQSTPIIEVEGPLLSDTHTVTFKSIREDR NGRSQKTVHTEGDMNMNIKKIVKQATV LTFTTALLAGGATQAFKENNQKAYKE TYGVSHITRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWPLQNADG TVAEYNGYHVVFALAGSPKDADDTSIY MFYQKVGDNIDSWSKNAGR VFKDSDF DANDPILKDQTQEWSGSATFTSDGKIRL FYTDYSGKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKAYYGGG TNFRKESQKLQQSACKRDAELANGAL GIELNNDYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSKMTIDGI NSNDIYMLGYVSNLTGPYKPLNKTGLV LQMGLDPNDVTFTYSHFAVPQAKGNNV VITSYMTNRGFFEDKKATFAPSFLMNIK GNKTSVVKNSILEQQQLTVN
2884	10935	A	3827	1	2604	
2885	10936	C	3828	1	2076	MNMNIKKIVKQATVLTFTTALLAGGAT QAFKENNQKAYKETYGVSHTIRHDML QIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKVGDNIDS WKNAGR VFKDSDFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSGKHYGKQ SLTTAQSIREDRNGRSQKTVHTERDMIM NIKKIVKQATVLTFTTALLAGGATHAFA KENNQKAYKETYGVSHTIRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHVVFALAGS PKDADDTSIYMFYQKVGDNIDSWSKNA GRVFKDSDFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFRKESQKLQQSACK RDAELANGALGIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKWYLF TDS RGSKMTIDGINSNDIYMLGYVSNLTGP YKPLNKTGLVLQMGLDPNDVTFTYSHF AVPQAKGNNVITSYMTNRGFFEDKKA TFAPSFLMNIKGNKTSVVKNSILEQQQLT VN*
2886	10937	A	3829	1	3603	
2887	10938	A	383	110	784	AAAAASKVLM*TGGAAPQEQP*TGGVQ A*APGSVA/AEGASVEGPGFGDTAPAHQ GLSPTRSHGQGGAGRASAHSRDPPGGTG GWGFLKCGPGALCPERGKDGASASVPR GPYAEAEKGGWALRGLGGVAAPGPPSR AGQAPSGLHTGPNARPAPWPIPGQGGGL RRDQAG*VSSWTGSTEPGAHTAHRAPG HGGKGGSPQQPHPGPGQIPTTHTRMHS CRITAA

2888	10939	A	3830	2455	3151	DRRCPIFCLLPFGIRFILLFGSSSLQRGPFHIL FFFFLIFFFFFIFLLSILGSFFFFLLSPVLLLL HHFFLSLFPACLLHLLLLLLQVLGAQLG RCLHA/SSPTWCRGRGR/VLAGSRGPAGAE TEGPWTAEGGRGRNLARWRRRRRQRQ RRPLGKLGLWKRRQRAGWGGGGSGA ETRRAAAVRRAGGRAVQAVAGALGRG SSIPGSPPPHQQAADQPCRPNPLIRR RLP
2889	10940	A	3831	1	2376	MKLMETLNQCINAGHEMTKAIAIAQFND DSPEARKITRRWRIGEADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGTRLRRAEDVFPFVIGVAA HKGGVYKTSVSVHLAQDLALKGLRVLL VEGNDPQGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWPGLDIIPS CLALHRIETELMGKFDEGKLPTDPHLML RLAIETVAHDYD*FVQLYNQHVAAQPV/ GISISGCGSRPAFSASLIA*EETPTKSAASP ILQRRVIFLASGLSSLNCAMAI AFVIS
2890	10941	A	3832	1289	3109	ETPYVSLYAFWLFSAKA*VAPPSGFSPT VVSSDSWLGSLVPYTLIART/PELIFVVRQ QVLDVERGAAACG*FLPRLVG*VPDLDA VGLYSTAPII*GAIPGQQQ*GLRMSEAQG VPAGGSLSTTVRLTWACLLPSLFSTSSV *QPQCSWRAARMVSLLPFSLFSTFMCSL SWICFRNFIQVQVMG*VPVTL PNSSTDSP ARTFWSSGNWMI*GGIAAFGGVLGAGFF FTVAS/PLSS*HGRKRALGPPGFHLWGLG VLTGWSIIHGDLAGALRLASVILGYTLV* ASVLRQCCLLDGDGQSEPSWERMNNLV VLMVFPFSVQMMVAGGSEDTWHWSSSF LPSAT*TSCSFCLKAGAVPWLSDLFSLSV VPAWPLLQFTSFLTSFLSSSLADFRFSSG LALPMGFRVSAGLALPIGFRVSAGLALP TGFKGPEGCALLRGLSTALAFRVSA LLPFSAGNFFLPSTERKSGVAGFGGGTF SGTGVLEVFPFLARTERKSTCWGLCTFLS SSDTVFGFTCRCLARKSICSAGISFRSSS DRVFVLTFFPRRSRKSSCSTSCWRIASSV CCLVSTRLFSTPRTSSPSSSSSQPCPLAQ PGLRDP
2891	10942	A	3833	1	2968	MTIVAALMTVFFIMQLVGQVPAALWVIF GEDRFRWSATMIGLSLAVFGLHALAQA FVTGPATKRFGEKQAIHAGMAADALGYV LLAFATRGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGDLCLGEH MERVGMDCRRRPIPCLPRVASRCMEPG HLDMNGSRRLHANGFTTPRIGANQFLRR TVNAQTNPWQNISIASAISSSTRTRISGSV GSWPRSGNAEVSALHHYVPDLHRRMLL ATL
2892	10943	A	3834	1	563	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGLHALAQAFTVGPATKRF GEKQAIHAGMAADALGYVLLAFATRGW MAFPIMILLASGGIGMPALQAMLSRQLT SIIGPLIVTAIYAASASTWNGLAWIVGAA LYLVCLPALRRGAWSRATST
2893	10944	A	3835	850	1280	
2894	10945	A	3836	3	3971	VCTGSSTRHIVTFDQGNFKLTGSCSYVLF QNKEQDLEVILHNGACSPGARQGCMSI EVKHSALSVELHSDMEAFRFLVHGHPYS ITTACFLVKLCKVKLCFLVKLFFILEELPT NIKVTVNGRLVSVPYVGGNMEVNVYGA IMHEVRFNHLGHIFTTPQNNEFQLQLSP KTFASKTYGLCGICDENGANDFMLRDG TVTTDWKTLVQEWTVQRPQOTCQPILEE QCLVPDSSHQVLLLPLFAECHKVLAPA

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2895	10946	A	3837	1838	4062	KRHKKPFFKSTNPGAGFFFEKINKIDRLLA RLIKKKREKNQIDAIAKNDKGDITTDPTM QTTVREYYKHLVYNKPENLEEMDKFLD TYTLPRLNQEELESLNKPITGSEIEAIIINSL PTKKSPGPDGFTAIFYQRYKEELLPFLK LFQSIEKEGILPNSFYEAIIIPKPGRDTT KKENFRPISLMNIDANILNNILANQIQQHI KKLIHHDEVGFIPGMQGWFNIRKSINLIP HVNRTKDKNHMVISVDAEKAFDKIQQH FMLKTLNKLIGDGYLKIIRPIFDKPTADI ILNRQKLEALPLKTGTQRQCSLPLLFNI VLEVLARAIRQEKEIKGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLIGNFSKV SEYTIINVQKSQSFYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTREVKDFFKENYK PLLDEIKENTNKWKNIPWSWVGRIDIVK MAILPKQMPDVNVSWDGEQPKQLPFIDI SVAVATDKGLLTPIIKDAAAKGIEIADS VRSNIVLQCQARPMPLRAFNPVSSFRWA RGMTIVAALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVFGILHALA QAFVTGPATKRFGEKQAIAGMAADALG YVLLAFATRGMWMAFPIMILLASGGIGMP ALQAMLSRQVDDDHQGLQGLSLAALTS LTSIIGPLIVTAIYAASASTWNGLAWIVG AALYLVCLPALRRGAWSRATST
2896	10947	A	3838	346	777	GELYFQVCGQFVWNRGCVVMKKMYILLF LSGEFCRCL*YSLMVVCISVGSVISPLSF FIVSI*FFSLFFFISLASSLSILLILSKNQLLD SLIF
2897	10948	A	3839	1	564	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFPIMILLASGGIGMPALQAMLSRQPN FDHWTADRHGDLCLRGHEMERVGMDC RRRPIPCLPVRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVNAQTNPW QNISIASAISSSRTRRISGSVGSWPRSGNA EVSA
2898	10949	A	384	244	315	NPKGQKDREAPLSRSVFVLKIKIKRAFAL LLHGRF*PSTPAASASPASKSPRGSGKAL ASALFYIVQLTK
2899	10950	A	3840	3	1049	GSLQGCCAASCARAFLRTCCARSESGLAV RGTKGVAFGENPRAAGTCSQSPFFPVAP PPGVRLWVLCPRFTGAFLRLTLALNV RAGDEGPRLLRAPRVPSRPSAPLAPAP ASTPARRLPVPMQAPGRGPLGLRLMMP GRRGALREPGGCGSCLGVALALLLLLP ACCPVRAQNDTEPIVLEGKCLVCDSSP SADGAVTSSLGISVRSGSAKVAFSATRST NHEPSEMSNRTMTIYIDQVFSNIGHHFDL ASSIFVAPRKGIFYSFHVVKVYNRQTIQ VSLALLNGYPVISA WAGYQDVTGEAASN GVLLMEREDKVHLKLERGNLMGGWK YSTFSGFLVFPL
2900	10951	A	3841	1	401	KGASSPVQVPGPVAASTEALLQEAQCSG LSWVVALPQVKQEKADTQDEWTPGTAV LTSPVLVPGCPSKAVDPGLPSVKQEPDP EEDKEENKDDASKLAPEEEITEIFSLGGP RFRDTAV*LPRSKDLKKPR

2901	10952	C	3842	108	293	MNMACLGCFVVALIILPFSNPAPPPLKSN FLYSGSWEEKMHQLSTLSLFPFLTSSRSS KYS*
2902	10953	A	3843	1	1490	MIREQKIYHKYLAQRREEEKAQEKEFDR ILEEDKAKKLAEKDKELRLEKEARRQLV DEVMCTRKLQVQEKSQYVKLLAAHPT GDRIRSKVELTRYLGACDLTLFDFKQGI LCYPAPKAHPVAVASKKRKKPSRPAKTR KRQVGQSGEVRKEAPRDETADTDTA PASFPAPGCCENCISFSGDGTQRQLKT LCKDCRAQRIAFNREQRMFKQPYTNRR QNRKCGACAACLRMDGCRDCFCDKDP KFGGSNQKRQKCRWRQCLQFAMKRLLP SVWSESEDGAGSPPPYRRRKRPSSARRH HLGPTLKPTLATRТАQPDHTQAPTQEA GGGFVLPPPGTDLVFLREGASSPVQVPG PVAASTEALLQEAQCSGLSWVVALPQV KQEKADTQDEWTPGTAVLTSPVLVPGCP SKAVDPGLPSVKQEPDPPEEDKEENKDD SASKLAPEEEAGGAGTPV/VTSVDSIYPE RQL*VSSWSYLHSCGTERYPGCSI
2903	10954	A	3844	1	1758	MAEDWLDCPALGPGWKRREVFRRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGQSGEVRKE APRDETADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCCKDCRAQRIAFNR QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCDK MAARRRPGAQPLPPPPPSQSPEPTQPYP T/IPPAEPQVRGLCSLPTAEWMWPLRFC CDKPKFSGSNQKRQKCRWRQCLQFAM KRLLPVWSESEDGAGSPPPYRRRKRPSS ARRHHLGPTLKPTLATRТАQPDHTQAPT KQEAAGGFVLPPPGTDLVFLREGASSPV QVPGPVAASTEALLQAVDPGLPSVKQEP PDPEEDKEENKDDASASKLAPEEEAGGAG TPVITEIFSLGGTRFRDTAVWLPSLQGRH SGREDGCKVWETEDTVEPTSTSWNPRG WPGTHVSLSPPPASMMWVSCRRSWCPS SQS
2904	10955	A	3845	1	1647	
2905	10956	A	3846	1	1821	MAEDWLDCPALGPGWKRREVFRRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGQSGEVRKE APRDETADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCCKDCRAQRIAFNR EQRMFKRVGCGECAACQVTEDCGACST LLQLPHDVASGLFCKCERRRCLRIVER SRGCGVCRGFQVTEQED/CLGHCPICLRPP RPLRRQWKCVQRRCLRGKHARRKGG CDSKMAARRRPGAQPLPPPPPSQSPEPTE PHPRALAPSPPAEFIYYCVDEDELQPYTN RRQNRKCGACAACLRNGCGRCDFCCD KPKFSGSNQKRQKCRWRQCLQFAMKR LLPSVWSESEDGAGSPPPYRRRKRPSSAR RHHLGPTLKPTLATRТАQPDHTQAPTQK EAGGGFVLPPPGTDLVFLREGASSPVQV PGPVAASTEALLQEAQCSGLSWVVALPQ VKQEKADTQDEWTPGTAVLTSPVLVPG CPSKAVDPGLPSVKQEPDPPEEDKEENK DDASASKLAPEEEAGGAGTPVITEIFSLGG TRFRDTAVWLPRSKDLKKPGARKQ
2906	10957	A	3847	1	1723	



2907	10958	A	348	1	1949	MAEDWLDCHLEPGWKRREVFRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDTAPASFPAPGCCENCIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRLAHLRRRHQRC QRRTPLA VAPPTGKHARRKGGCD SKMA ARRRPGAQPLPPPPPSQSPEPTEPHPRAL APSPPAEFIYYCVDEDELQPYTNRRQNR KCGACAACLRRMDCGRCDFCCDKPKFG GSNQKRQKCRWRQCLQFAMKRLPSV WSESEDGAGSPPPYRRRKRPSARRHHL GPTLKPTLATRTAQPDHTQAPTKQEAGG GFVLPPPGH*TLCLREGVASSPVQVGP VAASTEALLQEAQCSGLSWVALPVK QEKADTQDEWTPGTAVLTSPVLVPGCPS KA VDPGLPSVKQEPDPPEEDKEENKDDS ASKLAPEEEAGGAGTPVITEIFSLGGTRF RDTAVWLPSLQGRHSGREDGCKVWETE DTVEPTSTSWNP
2908	10959	A	3849	2	1682	LCDTPPGRGGGGRRGGRLQEGPSF MGRGLEWRKIPAWLPNWLLLLPVASM AED\WLYCPALGPGWKRREFFRKSRTC GRLNTYYQSPTGDRILSKVELTRYLGPA CDLTLFDFKQGILCYPSPQRPIPLGGLPG KKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDTAPASFPAPGCCENCIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCD SK MAARRRPGAQPLPPPPPSQSPEPTEPHPR ALAPSPPAEFIYYCVDEDELKRLPSVWS ESEDGAGSPPPYRRRKRPSARRHHLGP TLKPTLATRTAQPDHTQAPTKQEAGGGF VLPPPGTDLVFLREGASSPVQVGPVAA STEALLQAVDPGLPSVKQEPDPPEEDKE ENKDDSAASKLAPEEEAGGAGTPVITEIFS LGGTRFRD TAVWLPSKDLKKPGARKQ
2909	10960	A	385	933	1511	QVYRPSQTPHLALSPERVAPGRLAGGRL APEARAPRGSP/LPPHRVSEKTIRVMVFH PGARRAGGTPPRAPRGDTGGAPGAPTY STPLMSLHRARLESSSTGSSFPADSAKPV PLAVVSLDSR*GQWESRSSIHA\VTN*AS SSSSSSSSSFSR\YPRFIEFLHFDIQSTG Q/RITSRQHPPR/DFRDALF*LNS
2910	10961	A	3850	1	391	SPLNKVQLINELNEREVQLGVANKVSW HSEYKDSA WIFLGGLPYDLTKGDHICVF SQQRSTIVAVDNFNIGIKIKGRTIRVDHVS NYRAPKDSEEIDDVTRQLQEKGCCGARTP SPSLSESSEDEKPTKKP
2911	10962	A	3851	1	135	
2912	10963	A	3852	18	238	
2913	10964	A	3853	254	1424	

2914	10965	A	3854	8	1015	FLSAEREPELNNPLTKVKLINELNEREVQ LGVADKVSWHSEYKDSA\WISLG\GLPY ELTEGDIICVFSQYGEIVNNLVRDKKT GKS\KGFCFLCYEDQRSTILAVDNFNIGIKI KGRITRVDHVS\NYRAPKDEIDDDVTR QLQEGSGARPPSPTLSESEDEKPTKKH KKDKK\EKKKKKKEKEKADREVQAEQP SSSSPRRKT\VEKDDTGPKKHSSKNSER AQKSEPREGQKLPSRTAYS\GGAEADLER ELKKEPKHEHKSSSRREAREEKTRIRD RGRSSDAHSSWY\YWRSEGRSYRSRSRS RDKSHRHKRARRSRERE\SSNP\SDRWRH
2915	10966	A	3855	299	374	
2916	10967	A	3856	1	993	
2917	10968	A	3857	3009	3583	LFCLFFHILQPSHCWISEMVVQLSDSLTD LLDKFSNISEGLSNYSIIDKLVNIVDDLVE CVKENSSKDLKKSFKSPEPRLFTPEEFFRI FNRSIDAFKDFV\VASETSDCVVSSTLSPE KGKAKNPPGDSSLHWAAMALPALFSLII GFAFGALYWK\KRQPSLTRA\VENIQINEE DNEISMLQEKE\REFQEV
2918	10969	A	3859	880	1196	SP\TRRGTPGTCLKPTACAGAA*PGCSA RRTCASAAPLSTCPPSSCAAPPAPAAVP STPRPTSPSPWAAPASPSRRRTQTASTPA STNRAPSSCWAPTTRPLAP
2919	10970	A	386	15	466	GVPNNFIINKNKTPSGWLQPLPRWL*AP VGGACHYPGLEARTEERAPCPSKYTGEP EVLRIKNQGGTPRPGGGPGPSAPRGSL WST/PGSCPSITPHSLPAAR/PLPPTRHPA PSSPPCTE/SAPSGPSSSQAPGITVAPGISQ VQRAAALR
2920	10971	A	3860	305	631	IEKISLEPKNRPSQIPNLVGP/RLFLVPGD FQSQV\PNFLPFKPSGPHPAAGKGQPFSL LPAWRSTGPERATPGGRPAACSALEAP SLRGP\SGYSAQEPPRRPISARI
2921	10972	A	3868	980	1498	VSLN\QVLRQSLEQVTETFTSYFKPSCQ/ PPTSPIRAMKWTELRLSCLPAGROHYL LPATPPCSVRGVHKG\PTVPPAAPSPTSA QSHQPASHPLSSPTFLFEPIKDAGTHASLF SRDRHLPPFTCHIRPPQCLSPPHCSQGS RTGRAVTAALRMAAAAAAMTGNQSPTRI
2922	10973	A	3869	94	484	AAAALAAASLLLRREDPGPGAGPSMAE TEALSKLREDFRMQNKS\VFILGASGETG R\VLKEILE\QGLFSKVTLIGRRKLTDFE EAYKNVNQEVGGLLSLDDYASAFQGH D\LGFC\CLGYHQEGKAGGG
2923	10974	A	387	50	481	FMEYLTLSFIHVLLQ*FIHCFVHLFIHSFF YALMKSLIQ*FIHLYSCF/ICIDLLISSCIYS FIYALVKSLANSLTHSFIHTFLQ*FVHLFT PLLICSFTHSSIH*PSHSLTFIQLHLFFHAL VSGFIWSFIYLFCKINVFLIDK
2924	10975	A	3870	302	1187	TALVPRDKDWQSPDTLKTGICRCYFPSM AETEALSKLREDFRMQNKS\VFILGATVE TGRVLLKEILEQGLFSKVTLIGRRKLTDF EEAYKNVNQEVVDFEKLDDYASAFQGG HDVGFCCLG\TTRGKAGAEGFVRVDRD YV\LSAELEKAGGCKHFNLLSSKGADK SSNFLYLQVKGVEEAKVEELKFDRYSV FRPGVLLCDRQESRPGEWLVRKF\FGSLP\ DSWARGHSVPVTVVRAMLNNVVRPR DKQMELLENKAIHGPGGKRHGSSQGH HTGRNGFYLFNLNTHDQIG
2925	10976	A	3871	71	335	PTRSTSSGSYMKRRSGSCSP/MISDTSVV LSMDNSRSSRAVVVKIETRDGKLVSES SDVLPK*TAAAAPSLPLLRC\RAWEGG RYAW

2926	10977	A	3872	35	450	DIECESMH*EIRKHTMENEFALIKKD MDEAYKNKVELESHLEGLTEISFLTQL YEEEIRELHVPDLGHICGAVH*QQLPGH EQHHR*QGGTVRGDRQPQPG*G*EHEIK YEELQTLAWKHGMTRGAQRLRSR
2927	10978	A	3873	2121	2371	LENQSPRHVYSLSLKSKNDVMLL/DTAI FCPEATSEALDVVTSWASEAGTEELAFG FGLVSLSYCKLSTSLSVASSFVGGDWL
2928	10979	A	3874	29	3977	AEVAHARWERCFFSPTPFLWGCFRDRLL PGRACFRRLRAGRLKRGSYNCSQLWLCV EKALAMDRSGFGEISSPVIREAEVTRTAR KQSAQKRVLLQASQDENFGNTTPRNQVI PRTPSFRQFPTPKSRSLLRQPDISCILGT GGKSPRLTQSSGFFGNLSMVTNLDDSN WAAAFSSQRS\GLFTNTEPHSITEDVTISA VMLREDDPGEAASMSMFSDFLQSFLKHS SSTVFDLVEEYENICGSQVNLISKIV
2929	10980	A	3875	597	1088	GCQRQVVPWRPPLQRAQDMAWQLL EYQELMNIKLALDIEIATYRKLEGEESQ LDSGMQNMSIHTKTTGGYAGGLSSAYG DLTDPGLSYSLGSSFGSGAGSSSFRSTSS RAVVVKKIETRDGKLVSESSDVLPK*TA AAAPPSLPLLRCPRAWEGGRYAG
2930	10981	A	3878	1	2474	MPGYSALSINKPMLETTQMSITRGMGKL LVVRCGTEKAGPAVPGMEGPRSSSTHV PLVPLLVLLLLAPARQAAAQRCPQACI CDNSRRHVACRYQNLTEVPDAIPELTQR LDLQGNLLKVIPAAAFQGVPHLTHLDR HCEVELVAEGAFRGLGRLLLLNLASNHL RELQAEALDGLGSLRRLELEGNALIELRP GTFGALGALATLNLAHNALVYLPAMAF QGLLRVRWLRLSHNALSVLAPALAGLP ALRRLSLHHNELQALPGPVLSQARGLAR LELGHNPLTYAGEEDGLALPGLRELLLD GGALQALGPRAFAHCPRLHTLDRGNQ LDTLPPLQGGPQLRRLRLQGNPLWCGCQ ARPLLEWLARARVRSDGACQGPRLRG EALDALRPWDLRCPGDAAQEEEELEERA VAGPRAPPRGPGRGPEERAVAPCPAC VCVPESRHSSCEGCLQAVPRGFPSDTQ LLDLRRNHFPSPVRAAFPGHLVSLHL QHCGIAELEAGALAGLGRLIYLYLSDNQ LAGLSAAALEGAPRLGYLYLERNRFLQV PGAALRALPSLFSHLQDNAVDRLAPGD LGRTRALRWGL/HLSGNRITEVSLGALGP ARELEKLHLDRNQLREVPTGALEGLPAL LELQLSGNPLRALRDGAFQPVGRSLQHL FLNSSGLEQVGTGHLAGLVQEAQGH QRAFTQQAFAFASPLVPGLGPGQLSHLQK NQLRALPALPSLSQLELIDLSSNPFHCDC QLLPLHRWLTGLNLRVGATCATPPNAR GQRVKAAA VFEDCPGWAARKAKRTP ASRPSARRTPIQRKTVWTR
2931	10982	A	3879	1	531	ETPSSEPMEEEEDDLELFGGYDSFRSYN SSVGSESSSYLEESSEANEDREAGEL/H DLPAFAAQPWDSSLLGWQWF*ASCL/LR CVVSWVQGKPPSPRPRGSAASPAPGATP PTPRKPVSWLGYRENHRPKPKSCTRLP GLPKLEPSSTLKGQDSWQMGHQDKTL WSWASTGGSS

2932	10983	A	388	119	1533	KKMNLAEICBAKKGREYALLGNYDSS MVYYQGVMAQQDSRDIAQSVQRSLSK GKWPTFRFGQELLAEYEQVKSIVKHFKK VFKIDKPSQISPVLSR*THLEIPAVWPTA VPAEHRAPPQIRR/QRSRKTSEERNGRS RSPGTCRPSTSYIKE*/NSLLQVGTRTIEPE GGDDKGRKNMQDGASDGEMPKFDGAG YDKDLVEALERDIVSRNPSIHWDDIADL EEAKLLREAGVLPWMPDFFKGIRRP WKNDSQLGKPYRAQDDIGMNIVGPL THGFSSASAAPETTRQPLLFLLLSLSKV KTFKGVLVVGPPGTGKTLAKAVATEC GTTFFNVSSSTLTSKYRGESEKLVRLLE MARFYSPTTIFIDEIDSICSRRTSDEHEA SRRVKSELLIQMDGVGGALENDPSKM VMVLAATNFPWDIDEALRRRCFIWVG FPDVPQEKDTSVSPESCLLTDWWWGL
2933	10984	A	3880	143	606	NKYTDYCQLLKKSKGVDKKGKTASSLP EGSQSISREHLPAQSWLPWACLWLPA LL/HDEMOMRKQLPGLRSRAHSARQVR W/PCREAAAGCRMQRQASHLKSPEGKFH GHFLNTRVGRAGGNPHRPGKKWLLPSS VYVCNTEHCLWGAWCPKPNG
2934	10985	A	3881	253	514	
2935	10986	A	3882	950	1612	IIPILASVTQPQKQPAWKTGTGKGPQVS ISITEKVKSMQYDKQGIADTWQVVGTV TCKCDLEGIMPNTISLSLPTNGSPLQDIL VHPCVTSLSAILTSSSIDAMDDSAFSGP YKFPPTPPLESFNLCFYTSQSVIDDQPSKL LLNDGIGELMGFNWSNRSCGQVGSNQY AYCMPYAADQRTWRRGAWTSKYRNKN ALYTFVKRFSHLRKQREKNPYP
2936	10987	B	3886	146	326	MDESAPLCRTLGRVDSDDPLIPGCAS GPLAVPESEKQVHERKSLHWDGLTVSL VRAQX*
2937	10988	A	3887	575	828	CYPKVGRKPIKGEGEAPGAREKKNFAAE KRGLIPHGRKCLPISPCTGTRGPWCPICSS SGCASADTCTPRGALGAQKPIRESNF
2938	10989	A	3888	3	267	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDLIRS*AW PLTPQPAYWYPGPSSCQGCYRCFLES LTMRN
2939	10990	A	3889	1	942	
2940	10991	A	389	293	805	KARDKSPFLGDLCLKDTGQQSLLQCRFF PFLGTKISCFQNVHSWQTITSDGLSAGDG GFGPKYQ/RSRGQIPSGLNSLPLNSSEDL LPTPHFPLQSQGLGSQVAQIDDVKAPPPF PAEPQPKRLRSPRPLLAGIESVAVSRSLP SGPTGTDAL*WLSVQKPPTRTIHGNE
2941	10992	A	3890	3	470	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDIRRCWAR AGSGGLRWGEQ*YRAAGGAASQQGV GRGF*VGKGAESLFLHFPQLIRFLNDP HSLTLEELNVVEQVRVQVSDPESTVAVA FTPTISHWSMGTIGVC
2942	10993	A	3891	2	604	ARSHRISGGGSAMVGGGGVGGGLENAN NPLIYQRFGEVPVTAGEEDEQVPDSIDA REVFDLIRSHQMTPEHPLTLEELNVVE QVRVQVSDPESTVAVGFPKPTHSGTCR HGPPLIGLSIKVKILLRSLPSAFSRWDVA HLLPGDPLPQEHAVEQATLQIEAGWAT ALGRTHHLLLEVVMQCLSSPAGTWAFV PLSLA
2943	10994	A	3892	73	204	

2944	10995	A	3893	1	846	QGANMPRYAQLVMGPAGIVKSTYCAT MVQHCEALNRSVQVVNLDPAAQHFNYS VMADIRELIEVDDVMEDDSLRFPGNGGL VFCMEYFANNFDWLENCLGHVEDDYIL FDCPGQIGVVTLTWPVVMKQLVPALEQ WEFRVCGVFLVDSQFMVDHSRFSIGHLA AALSAWISLEIPQVNIMTKMDLLSKKA KKEIEKFLDPDMSLLEDSTSDLRKAKN SRKLDLKAIMWDLIGWTYSLVRIF/IPYD QSDEESMNIVLQHIGFAIQYGEDLEFKR NPKEREE
2945	10996	A	3896	1	1319	MDYGLLCGQQLVPQVEPVIQRGHESLV HHILLYQCSNNFNDSVLESHECYHPNM PDAFLTCTETVIFAWAIGGEGFSYPPHVGL SLGTPLDPHYVLELVHYDNPTYEEVLDA EKYKYKVLASDEGLLTGHNMAVGFTW WKGLIDNSGLRFLYTMDIRKYDAGVIEA GLWVSLFHTIPPGMPEFQSEGHCTLECLE EALAEKPSGIHVFAVLLHAHLAAGRIRL RHFRKGKEMKLLAYDDDFDNFQEFQY LKEEQTILPGDNLITECRYNTKDRAEMT WGGLSTRSEMCLSYLLYYPRINLTRCASI PDIMEQLQFIGVKEIYRPVTTWPFIKSPK QYKNLSFMDAMNKFKWTKEGLSFNK LVL/SLPVNVRCSTDNAEWSIQGMTAL PPDIERPYKAEPVCGTSSSSSLHRDFSIN LLVCLLLSCTLASTKSL
2946	10997	A	3897	1	394	
2947	10998	A	3898	1	150	
2948	10999	A	3899	708	911	
2949	11000	A	39	132	370	SNSPA*PSGEPGTMG/CRPPCPVNFGLRK NGVPPCGPGGPKSPDLRTHPLGPPKG/RG IPGGTHCPGPPLGFKKPWPPGRV
2950	11001	A	390	2	428	GLPGSTTASAAAASASSDAPSFQLG KPRLQQTsfYGRFRHFLDHDPRTLFVTE RRLKEAVQLLEDYKHGTLRPGVTNEQL WSAQKIK/SGYIPFGTPIVVGLLPNQTLA STVFWQWLNHSHNACVNYANRNATKP SPA
2951	11002	A	3900	1	1349	MAAGQRRSSLRSLGSQFINCDPECQLSC LVGLEVQKEEVIRAAEGWKRAAPAGLR PTNYSNRQASEGRVVIAGNQSYQSRASP RPLARWKASANGRAPIAEPAAAVAGLG AGSGKRRRGWKMPVHSRGDKKETNHH DEMEVDYAENEGSSSEDEDTESSSVSED GDSSEMDDCERRRMECLDEMSNLEK QFTDLKDQLYKERLSQVDAKLQEVIVE RAPEHLEPAGNLQENMQIRTKVAGIYR ELCLESVKNKYECEIQASRQHCESEKLL YDTVQSELEEKIRRLIEDRHSIDITSELW NDELQSRKKRKDPFWDKPPGVVSGP YIVYMLQDLLEDWTTIKNAMATLGPH RVKTDPPVKLEKHLHSAISEEGRLYYDG EWYIRGQTICIDKKDECPTSAVITTINHDE VWFKRPDGSKSKLYISQLQKGKYSITFII MI
2952	11003	A	3901	38	383	
2953	11004	A	3902	252	526	

2954	11005	A	3903	777	1719	LLTLTFPRCSVAQPLPFTGGTSVSWALL ALHVAVVFLLFAGAAGCVATLLHDAAM NPAEVVKQRMQMYNSPYHRVTDVCRA VWQNEGAGAFYRSYPTQLDHDVFPQAI HFMDLWNSCRSTLTPKRSYNPDSHFFSG LCAGAVAAAATTPLADVCKTLLNTPGVL GFELTHYRTYQGMASAFRTVYQVGGV TAYFRGVQARVIYQIPASTAIASVYEFF KYLIHLKGQEEWRAGKVKLALNESPGV QDDTDASWSHSLSPGMLPPQVELKGKE KGLSPTDFGVLNTSSCQPLPPFPPLPGP KHVQQSTPQHL
2955	11006	A	3904	1	1788	MLQQGAILEAETKPSPTDKYTSALIFNFP ASTADLGKTKRPAVEEKETPNKTRAQSL FLAKERRQDPFRPGLSALPLVKMAAIG GAAHSEGRRLPCRPRPFTSRPPRSRLDA LQVQRDQSDGAALFGQPLQGRAGLSER PCQTERGKKPQQRQLSNRLQTAFFRRGPL GSGFQLRWSCRGCNVNAARSPPGSAQR SRSREPLLGPRWPGSRGWQLCESLKKIA KGWVSQDPSRQLKECGQSASTSPRTPY SQDLLQHPKLEVAADPRTRGTREPAAL VERLEMLSGAGSVVDAVPLLVRRRRR RRRRHSAQRALAAAAAAASEPLDCQM RLCASLGVFSTAPSSSACRADITDCVSGL AGGEMVPRRVLADQLTEEQIAEFKEAFS LFDKDGVDGTITTKELGTVMRSLGQTQT EGELQDMINEVYADGNGTIDFPVFLTM MARKMKD TDSEEEINRESFRVFAKDNG YISAAELRHVMTNLGEKTTDLEIVDEMI READIDGDGQVNYEEFVQMMTGKMED LTFQLPFSPPLEESNWNLLLTLLQKKEKK KKVHLFHSCFLYSKTECQKYL LVHTHQ NLHVLVGGPVP
2956	11007	A	3905	1	351	GPPRPPTPPLKPIRGATARPPRSRF*PRS DIPPLSRVLVARPPRSPPLGKPLWIMGRP RPPIAPLARAPMGRPNRAWMLLP RR CF KLFEGNRQRQCSSRGCHHGSGRRAGDRP NLS
2957	11008	A	3906	3	345	SCRCRRKAGKGRPGEQTDRPTRQPTSNN ELSSHTTAYASNQPP*LTRAPPSTQVRP VPGPPAGAVVAVPGGALASVSFDSRDSK TAAQSSEVGALPPHQDV TICAVRAAT
2958	11009	A	3907	3	387	RPLQTKGRKGQAGFGRSPARLPEPWWQ PREEH/WASVSFDSRDSKMAAQSAKVV LKSTTKMSLNERFTNMLKNKQPTPVNIR ASMQQQQQLASARNRRLAQQMENRPSV QAALKLKQKSLKQRLGKSN
2959	11010	A	3908	565	719	GRDVT PRSKPAPRWTSRSSPNGLKKRW CSRSWRSWERGPR*SSALGKSNIQARL/ WPTHRGPGQGSNRRTRPTPYSREALPRE GLRGGRATENPT*GRDVT PRSKPAPRW SRSSPNGLKKRWCSRSWRSWERGPRAW SYGSWRNRW
2960	11011	A	3909	299	557	ADGSADLDSQRSSNELSSHTTAYASNQP/ LHLANPSPSTSQLRFRPVAVAVPGAVG GSPREEHLASVSFDSRDSKMAAQVSSEK LC
2961	11012	A	391	3	297	
2962	11013	A	3910	1	420	
2963	11014	A	3911	2	437	
2964	11015	A	3912	10	250	
2965	11016	A	3913	2824	3156	SNEGVKGLSRQKAWTADYNFCLGGNCH FSGFYFSDSCYSSYRRCRTCCDFCNSG RNCSGFWGLCCTILCSD*SSFLISRSTW TPGLAIIPTRLLIT*TLISWSTV
2966	11017	A	3914	1	70	
2967	11018	A	3915	42	140	

2968	11019	A	3916	4594	4848	HIYCE*SLYLP*DLDDGDLDLECELAR LRDLVYDLE
2969	11020	B	3917	565	1161	MYHGWVPDLHIHAEDTLLPFYLGEKDD VTYAIKPTCWPGLDIIPSCALHRIETELM GKFDEGKLPTDPLMLRLAIETVAHDYD VIVIDSAFNLGIGTINVCAADVLIVPTPA ELFDYTSALQFFDMLRDLKLVDLKGFE PDVRILLTKYSNSNGSQSPWMEEQIRDA WGSMLVKNVRETDEVGKDLHALLVR L*
2970	11021	A	3918	3	226	LSVLFCCFGVESNFNFYVYSCCVFMATS QTFICMHTYSLIEMIVIHYNLEFF*ISKM ATIAVLGFLRLDIYHV
2971	11022	A	3919	1469	2806	CGSPPFATSSFFALS GHVLF AKLCTMVAP KLRSWMYAVYGALAVMGTMGPWYLLL LLGHCVGLYVASLLGQPWLCGLGLAS LASFKMDPLISWQSGFVTGTFDLQEVLF HGGSSFTVLRCTSFALSCAHPDRHYSL ADLLKYNFYLPFFFFGPIMTFDRFHAQVS QVEPVRREGELWHIRAQAGLSVVAIMA VDIFFHFFYILTIPSDLKFANRLPDSALAG LAYSNLVYDWWKAAVLFGVVNTVACL DHLDPQPPKCITALYVFAETHFDRGIND WLCKYVYNHIGGEHSAVIPELAATVAT FAINTLWLGPCDIVYLWSFLNCFGPQTL KLWVPKTGQKWGPPKHEIEGLLCQVQ MSRRVURALFGAHELSPIMYNLVSLN SLAKFTELVARLLLTGFPQTLSILFVTY CGVQLVKERERTLALEEEQKQDKKKPE
2972	11023	A	392	1	885	
2973	11024	B	3920	54	316	TIWDGEETVYCFKERSRAALKACYRGN RYPTPDEKRRLATLTGLSLTQVSNWFKN RRQRDRTGAGGGAPCKRKLPPGQPCVW QPHRDG*
2974	11025	A	3921	1	2219	MATLPAEPSAGPAAGGEAVAAAAATEE EEEEARQLLQTLQAAEGEAAAAAGAGA GAAAAGAEGPGSPGVPSPPEAASEPPT GLRFSPEQVACVCEALLQAGHAGRLSR FLGALPPAERLRGSDPVLARALVAFQR GEYAEYRLLESRPFAAHHAFLQDLYL RARYHEAERARGRALGAVDKYRLRKKF PLPKTIWDGEETVYCFKERSRAALKACY RGNRYPTPDEKRRLATLTGLSLTQVSNW FKNRRQRDRTGAGGGAPCKSES DGNPT TEDESSRPEDLERGAAPVSAEAAAQGSI FLAGTGPPAPCPASSILVNGSFLAASGSP AVLLNGGPVIINGLALGEASSLGPLLLTG GGGAPPPQSPQGA SETKTSVLDPQTG EVRLEEAQSEAPETKGAQVAAPGPALGE EVLGPLAQVVPGPPTAATFPLPPGPVPAV AAPQVVPLSPPPGYPTGLSPTSPLNLQP VVPTSQVVTLQAVGPLQLLAAGPGSPV KVAAAAGPANVHLINSGVGVTALQLPS ATAPGNFLLANPVSGSPIVTGVALQQGKI ILTATFPTSM LVSQLPAPGLALPLKPE TAISVPEGGLPVAPSPALPEAHALGTLSA QQPPPA AATTSSLSLFPSPD SPGLLPNFPA PPPEGLMLSPAAVPVWSAGLELSAGTEG LLEAEKGLGTQAPHTVLRLPDPDPEGLL LGATAGGEVDEGLEAEAKVLTQLQSV VEEPLEL
2975	11026	A	3922	185	478	VSDTLWALAGLAAGRWAGGCQTLGLQ GVVQGLGLLINGPRAGAAPLSLGNLHPP SAARWHPS*AASHTGTGQSLVGIVEPHN PTSSGG*RPGTAGRSQ

2976	11027	A	3923	74	593	RGWVMWVDEPQALVLSPIYERQNLDA SVQHLEDGDGKRKRSSSSPRSNKKAKA LDNSLQPKSLAASSPPPCSQSPCEEKP QGVKPHEGPRGPLSASGVPGQPWPGQ GG/WWGAAGRVAEPRTESREPVSGAGT SSRSPSPTGFRQPPHPSARPSRAAPGQR GWAGDRR
2977	11028	A	3927	1	2936	MALMFTGHLLFLALLMFASFTEESVSN YSEWAVFTDDIDQFKTQKVQDFRPNQK LKKSMLHPSLYFDAGEIQAMRQKSRASH LHLFRAIRSAVTVMLSNPTYLLPPPKHA DFAAKWNEIYGNNLPLALYCLLCPEDK VAFEFVLEYMDRMVGYKDWLVENAPG DEVPIGHSLTGFATAFDLYNLLDNHRR QKYLEKIWVITEEMYEYSKVRSWGKQL LHNHQTATNMIALLTGALVTGVDKGSKA NIWKQAVV
2978	11029	A	3928	2	512	
2979	11030	A	3929	1	399	
2980	11031	A	393	2	674	SCPLSCTSAATGLWVKEGLRIVSSVLLGL SCPWGSPLEAELDLGEG/RLWRTSFYGR FRHFLDIIDPRTLFTERRLREAVQLLED YKHGTLRPGVTNEQL*SAQKISQAIYHP DTNEKIFMPFRMSGYIPFGTPIVVGLLLP NQTLASTVFWQWLNQSHNACVNYANR NATKPSASKFIQGYLGAVISAVSIAVGL NVLVQKANKFTPATRLLIQRFVFPFAV
2981	11032	A	3930	1	1812	NRRTRP GCGVVTCTYRREFIQRKLEAAL NVHDGCVNTICWNDTGEYILSGSDDTKL VISNPYSRKVLTTIRSGHRANIFSAKFLPC TNDKQIVSCSGDVIFYTNVEQDAETN RQCQFTCHYGTTYEIMTVPNDPYTFLLSC GEDGTVRWFDTRIKTSCTKEDCKDDILIN CRRATSV AICPIPYLAVGCSDSVVRU YDRRMLGHKELQGNVAGRGVTTGIGLP RFISLPHLNNKSCRVTSLCYSEDGQEILV SYSSDYIYLFDPKDDTARELKTPSAEER REELRQPPVKRLRLRGD WSDTGPRARPE VSEERDGEPESPMCPLMQRMSDMLSR WFEEASEVAQSNRGRGRSRPGGTSQSD ISTLPTVPSSPDLEVSETAMEVDTPAEQF LQPSTSSTMSAQAHSTSSPKESPHSYSFC YFLPDS\DQRQSVEASGHHTHHQSEFLR GPEIALLRKRLQQLRLKKAQQRQQELA AHTQQPSTSDQSSHEGSSQDPHASDPS SVVNKQLGSM SLDEQQDNNEKLSPKP GTGEPVLSLHYSTEGTTTSTIKLNFDTDEW SSIASSRGIGSHCKSEGQESFVPQSSVQ PEGDS
2982	11033	A	3931	1	1878	
2983	11034	A	3932	2	202	
2984	11035	A	3933	9	111	SRQAWHEASNYGPMKSGNFGGIARNMG GPYGGGNL
2985	11036	A	3934	297	611	QWGLRFMNGVLSGGLSVQATSPPSASR RHFPSLGVGDGELSHGGRCAGVKVGR GGGNSYSLSKARCFGGHGVSSASVSAGS RSS*ARLRSFPSPSLTGTGFGR



2986	11037	A	3935	14	1276	KSGGTALAAVAAAPGPVRRCSSQSCFSS SGSSHYSARTSPVRVRPRRSLSSRSAAGN RAEATESAMEKTLETVPLERKKREKEQF RKLFIGGLSFETTEESLRNYEYQWGKLT DCVVMRDLASKRSRGFCFVTFHSIGLE VDAAIASRPHSINGEVVEQKRAVAREE SGKPGAHVTVKKLVGGIKEDTEEHHLR DYFEEYGKIDTIEIITDRQSGKKRGFGFVT FDDHDPVDKIVLQKYHTINGHNAEVRK ALSQEMQEVQSSRSRGGNFGFGDSR GGGNGFGPGPSNFRGGSDGYGSGRGF GDGYNGYGGGPGGGNFGGSPGYGGGR GGYGGGPGYGNQGGGYGGYDNYGG GNYGSGNYNDFGNYNQQPSNYGPMKS GNFGGSRNMGGPYGGGNYGPGSGGSG GYGGRSRY
2987	11038	A	3936	827	2064	QRRRVPCGAPRRVVSRAAAVLTTAPG RVRFVVRGDLSHLARLREIGLRLSPR WREKKKQFRKLFIGGLSFETTEESLRNY YEQWGKLTDCVVMRDPASKRSRGFGFV TLSSMAEVDAAAMAARPHSIDGRVVEPK RAVAREESGKPGAHVTVKKLLVGGIKE DTEEHHLRDYFEEYGKIDTIEIITDRQSG KKRGFGFVTFDDHDPVDKLDLRKYHTI NGHNAEVRKALSQEMQEVQSSRSRGG GNFGFGDSRGGGNGFGPGPSNFRGGSD GYGSGRGFGDGYNGYGGGPGGGNFGGS PGYGGGRGGYGGGPGYGNQGGGYGG GYDNYGGGNYGSGNYNDFGNYNQQGS SYGPMKSGNFGCWRNMGGPYGGGNY GP/GGSGSGGYGGGRSPILKLLPICHGAS LV
2988	11039	A	3937	36	320	GPGRWVVVDEVTMWLELEQYPVSFLKQ PFEIGRHLDLPKGTYGICVNMCPGNKSC/ PRGKRCQSNCGHVCKVVPETSKSQPLR CSQGKMTHWSSL
2989	11040	A	3938	3	713	
2990	11041	A	3939	1	519	
2991	11042	A	394	485	1044	HLVPLCPCNLSKAGRCTVQERLLVICCS RSWRWRNLM*RWLNYPVSSGHRH*SS LARETSVDPDMRKGPAGAEGKGKAVGC KGVSQETAAYWKRTSSSLEPTWLLTN KPMFFGFRNLFAPTFRHTPEALWLPTPC HRGSPALHIEAFMPAALPSGTASCELPCH WPYQLSGVLCCAPWVIKEA
2992	11043	A	3940	1	966	MGHLLMIDKLVALGGLYYAIQRHYATK CSVLKNDQILVIGLFMIQNVYRKHFANP LSALFLQQGIELFAAIAEIHITTVAERNHA ITQIRLEAQTIFDSLKEWHNAIRKSLDYE ALQAFEFVRGATDRGFPALSSEALVRVL VLDANDNSPFVLYPLQNGSAPCTELVPR AAEPGYLVTKVVAVDGDGSGNAWLSY QLLKATEPGLFGVWAHNGEVRTARLLS ERDVAKHRLVVLVKDNGEPPRSATATL QVLLVDGFSQPYPPLPRAAPAQAQADSL TVYLVVALASVSSLFLFSVLLFVAVRLC RRSRAAPVGRCSV
2993	11044	A	3941	1	2783	RILSVDDFVELNVSSLVAVAEGIGYRDL DSNMKKLGRIHPNRQVLAFLMVFLSQV RLEPIRYSVLEETESGSFVAHLAKDLGLG IGELASRSARVLSDDDKQRLQLDRQTGD LLREKLDREELCGPIPCVLHLQVVLE MPVQFFQGELLIQDINDHSPIFPEREVLL KILENSQPGLFPLLIAEDLDVGSNGLQK YTISPNSHFILTRNHSEKGYDPLVQDK PLDREEQPEFSLTLVALDGGSPPRSGT
2994	11045	A	3942	383	703	NRITPTSARINLSILVPSAINNGSMTEIN RTVISGTPRQNSIKMTDKIRTIGIWERRPG VVVLTTCIMV*HLTSAIANRLNLLRKL

						RMVIFSHRLK VSSMKSA
2995	11046	A	3943	1887	3072	NFVMCHGEPWLAGRTVVPVSTLSGPEL ALQKLGKTPLGRYLFSTSLTRDFIEIGR DAGLWGRSRLRLSGKPLLLTELFYRRH RCTKRKKICDCISANVWAVLKTVEAAGS DRPVQCLTITAVQRETDQSLSVITAELE PVSSPHFIREAGQYGTGRSSKEREVQPVV QRSFSNWIRNNGDICELSPTSGDHPPPS GPGLYSARKAIMQHYQARGMRDVTVED IYIGNGVSELIVQAMQALLNSGDEMLVP APDYPLWTAASVSSGKAVHYLCDESS DWFPDLDDIRAKITPRTRGIVINPNNTG AVYSKELLMEIVEIARQHNLIIFADEIYD KILYDDAEHHSIAPLAPDLLTTFNGLSKT YRVAGFRQGWVHRFFTPRLTVQAI
2996	11047	A	3944	623	2587	SPRKGKGKGGKANRVLLTGAPLDPIDLS QSAVSHSVKEL/ENHTGVRLLDRTTREV VL/TDAGQQLALRLERLLD/ELNSTLRDT GRMGQQLSGKVRVAASQTISAHLPQCI AESHRRYPDIQFVLHDPQQWVMESIRQ GDVDFGIVIDPGPVGDLQCEAILSEPFLL CHRDSALAVEDYVPWQALQGAKLVLQ DYASGSRLIDAALARNGIQANIVQEIGH PATLFPMAAGIGISILPALALPLPEGSPL VVKRITPVVERQLMLVRRKNRSLSTAAE ALWDVCNCAIQPFFTATRCIGSVTVKL LVPVGKSEFLAAQHKVVTCPAGDI VASVIGLICITLSKERFEPPTAAGEIVADT VQEHIVVEIHAIIRTVGAIRMQVEIKSGV TQAYLQLGINEKLGLSGRPDRPIGCLGTS KIYRILGKTVVCYPIFDLSDFYMSQDVF LLIDDIKNALQFIKQYWKMHGRPLFLVLI REDNIRGSRFNPILDMLAALKKGIGGVK VHVDRLQGPLENDLVVHVVALIAESQRLQ VFLNTYGIQTQTPQQVEPIQIWPQQLVK VTLGAFGHEEEVISNPLSPRVIQNIYYKC NTHDEREAVIQQELVIHIGWISNNPELFS GMLKIRIGLQNECSLVIQVSTIIPAT
2997	11048	A	3945	102	2392	RKQMNYSLKQLKVFTVAQEKSFSTRAG ERIGLSQSAVSHSVKELENHTGVRLLD TTRAVVLTADAGQPLALRLERLLDELNST LRDTGRMGQQLSGKVRVAASQTISAHLI PQCIAESHRRYPNIQFVLHDPQQWVME SIRQGDVDFGIVIDPGPVGDLQCEAILSEP FLLCHRDSALAVEDYVPWQALQGAKL VLQDYASGSRLIDAALARNGIQANIVQ EIGHPATLFPMAAGIGISILPALALPLPE GSLVVKRITPVVERQLMLRVDLRFAQK FQIGDRKILRSGNNAVNLPAATCGFPFP VCCWRFAYGCCSALLRIPRLYSVFIHSL LYGFSRAHISSPGACWVFIHERFGQFMY GLYPHDQRWRINLALLIGLVSIAPMFWKI LPHRGRYIAAWAVIYPLIVWWMYGGF FALERVETRWGGTLTLIIASVGIAGAL PWGILLALGRRSHMPIVRILSVIFIEFWRG VPLITVLFMSSVMLPLFMAEGTSIDKLIR ALVGVLQSAAYVAEVVRGGLQALPKG QYEAESLALGYWKTQGLVILPQALKLE TVRQPQTLAMEEINCHHNYVQKEQHFG EEIYVTRKGAVSARAGQYGIIPGSMGAK SFIVRGLGNEESFCSCSHGAGRVMSTRK AKKLFSVEDQIRATAHVECRKDAEVIDEI PMAYKDIDAVMAAQSDLVEVIYTLRQV HSCRAGETGAVAPASDRGKGGDGNLRS NRGRRGAGVAASALPARHRARGRLPLC YR
2998	11049	A	3946	2	331	

2999	11050	A	3947	3	116	
3000	11051	A	3948	3	162	
3001	11052	A	3949	181	804	RPLPRIGCCGPGAGQVGEARSPRVSLCF APCRLLRAGGGRALRRRPGTPGPVARP SYSSFTQGDSWGEGEVDEEEGCDQVAR DLRAEFIMGQWSEPRKLSVLPDRNGS PVLDPKRNIGIFPSGRGQQEPSLRRWPFQ VLSILCSLLFAILLAFLLAIAYLIVKELHA ENLKNEDDVTGLLGFWTLLIISLTAGIL LLQLFLGQ
3002	11053	A	395	901	1213	SQHFGPRPWADHLRSGV*DQPGQHDET PSLLKIQKLAGYSGEHL*SQLLRRLRHEN CLNPGSGGCSEPRLLHCTPAW/VAEPDS VGGGVGGKEKNNTSNMLQTRP
3003	11054	A	3950	1	149	
3004	11055	A	3951	1	1896	
3005	11056	A	3952	3	275	
3006	11057	A	3953	2	395	
3007	11058	A	3954	1	209	
3008	11059	A	3955	466	3315	EMVPRWAIYQGFQDCLVHHASSRASGL WKLNPCRGLRCPDTRLPTSRWPNRDTR SASTQLLGKQSLPPAPEADPVFLPQEENE PPSPLVSGIIDYNMPLTSTYLKQMKLRV MNSQEQAGSSPTPIQTERHTAQLLLTAD QTLVLPATQHYVVLKKFPRPGAEDIMSG GPTLEAAEFDDLIGKCLPDRPIAGSVRLG DRIWNPRGSPRRRCRLHGQCVPGSGLER RPRDYPITLQLWLARRQDPARCGLAEHN DR
3009	11060	A	3956	11	755	ETHAPPSGVWGLERPSHPADQEIAGGQG QTAPAWEKPHSHPTPKSCGDQTKTLTHT ERREDKPSFTRAGWGWENLKGPVTEG AGSPGGSSHGAGLNRDHPLQSQPGRAI PWPQRAPTHMLFSMTRGQSPGAAPGAQ PEISKLAGYKKQKKQRSCLRKCHP/QE AGHRQRVASAGPGLQGEAAGEGRGEG AFWLKARNISKYSSLGINIPPNGAQGSC LGKVGCRRHDPRHSGLSAPFPRPMSQAL
3010	11061	A	3957	175	559	VKRQLRRLRRSPWPDEKPKGVKTENN DHINLKVAGQDGSVEQFKIKRHTPLSKL MKAYCEVRQGLSMKQIKIPDFDGGQVNE TDTPATVGKWKDERYQLMVFQQARPG GVYLKRELCFLYSQNSVSF
3011	11062	A	3958	140	380	
3012	11063	A	3959	98	426	LLTPSSAALKGESVQWHLREAGQSLPR RLTCAGWNKRFLHWIDQLSG*TQTCLLL VVFVWIATE*LGESLPL*APIGGTQPW*F LIGAMKKHQETGENDHFNSPGPH
3013	11064	A	396	110	1012	KTTRGYTLLHCAAAWGRLETLKALVEL DVDIEALNFRERARDVAARYSQTECVE FLDWAGLNPGTATHDSDEEAFLTRVW STGHNDSGVKQRMGQKEIQNATSSNHF TCPSSVTLQKKGV*FVGLLW*FRNVSTL LMKTFLPQARNSPPETPSGTITTQITGKIC RMYFWSYMESEGPPESERAEFFSQEEEE NEEEEAQEPEETGPKNPLLQALTGDVE GLQKIFEDPENPHHEQAMQLLEEDIVG RNLLYAACMAGQSDVIRALAKYGVNLN EKTTRGDTLLHCAAAWGRLETL

3014	11065	A	3960	234	1050	ARTLKRRWKVKTIVIGRKVQTMKILETL RISALLWEEVLLGLKDKEGYTSFWND CISSGLRGGILIELAMRGRIYLEPRTMRK KRLLDRRVLLKSDSPTGDVYWDETLKH IKATEPTETVQTWIELLTGETWNPFLQY QLRNVREERIAKNLVEKGILTTEKQNFLLF DMTTHPVNTNTEKQRLVKKLQDSVLER WVNDPQRMDKRTLALLVLAHSSDVLEN VFSSLTDDKYDVAMNRAKDLVELDPEV EGTKPSATEMIWAVLA AFNKS
3015	11066	A	3961	1	1074	MEPIGARLSLEAPGPAPFREAPP AEELPA PVVPCVQGGGDDGGASETPSPDAQLGD RPLSPKEE/CRPPGAGGAAGMPPLPRAL LFLARRPHL/VRRPSSCSSSSNRWHWA A/SGAEDAQLGPGGCCAKCKRVQFAD TLGLSLASVKHFSEAEPPQVPPAVLSRLR SFPMAEDLEQLGGLLAAA AVAPLSAP PSRLRPLFQLPGPSAAERLQRQVCLER VQCSTASGAEVKSGRVLSCGPRAVTV RYTFTWRSFLDVPAELQPEPLEPQQPEA PSGASEPGSGDAKKEPGAECFHFSLCLPP GLQPEDEEDADERGVAVHFAVCYRCAQ GEYWDNNAGANYTLRYARPADAL
3016	11067	A	3962	42	424	
3017	11068	A	3963	3	899	PPNVFSPASLPFFPAEGGPGRSRWREGG YLSQSRSGRLSQEEAASRSAGGMAGAPD ERRRGPAAGEQLQQHVSCQVFERLA QGNPQQGFFSFFTSNQQCLRLKLTLET NPYVKLLLDAMKHSGCAVNDRHFSCE DCNGNVSGGFDASTSQIVLCQNNIHNQA HMNRVVTHELIHAFDHCRAHVDWFTNI RHLACSEVRAANLSGDCSVLNEIFRVQ FGLKHPPQTCVRDRATLSILAVRNISKE VAKKAVDEVFESCFNDHEPFGRIPHNKT YARYAHRDFENRGRVYYSNI
3018	11069	C	3964	165	347	
3019	11070	A	3965	871	1194	EFVFFFETESFSVTQLECSGHNGLGHCHN LHLPSSSNAPASASRVARITGAHHHARLI FVFLVEMGFHQGTGWAMLVLKLPDIQVIC PPWPPQSAGIYRHEPQHPRGK
3020	11071	C	3966	54	197	MVLSSFNFQKAIKLALLKYFKISFQLPPF YVHKIGCRHSHFAMNVS**
3021	11072	A	3967	263	742	SRSHDHLTYTVVPSPWNFALRISNSK NEMFMSFLFREMKKKKLPDSGDLEAL EGKDKEKESTVHIETHQNTSKNVA AVQP MKR\GQKSKMKMKMKEY*QDEEDREL IMKLLGSAGSNKEEKGGKGGKTKDE PVKKQPQKPRGGQVRSDNIKE
3022	11073	A	3968	189	1393	SHTDFPYDNSTDGGDTSSDEDKEEHETP VEVELMTQVDQEDITLQSGRDELNEELI QEESSEDEGEYEEV/REKDQDSVGEMKD EGEETLNYPDTITIDLSHLQPQRSIQKLA SKEESSNSSDSKSQSRRLSAKERREMK KKKLPSDSGDLEALEGKDKEKESTVHIE THQNTSKNVA AVQPMKRGQKSKMKM KEYYKDQDEEDRELIMKLLGSAGSNKEE KGKKGKKGKTKDEPVKKQPQKPRGGQ RVSDNIKKETPFLEVITHELQDFC/AVDD P/HLIDQGKEPDLQDQGNEENLFDSDQ GQPHPEDVL/LGFAIPICAPYTTMTNYKY KVKLTPGVQKKGKAAKTALNSFMHSKE ATAREKDLFRSVKDTDLRSNIPGVKSV CTQSSERKKEIAEMKF
3023	11074	A	3969	192	1510	
3024	11075	A	397	247	496	
3025	11076	A	3970	68	382	MSVPDEEERLLRLTQRWPRASKFLLSGC AATVAELGTRLPTPGPPGPVARAALGEE TAGAASRPGSAQSKRSPPSHARLAEVAV

						EARPRGGRRRDLEVSTAFSF
3026	11077	A	3971	3	1451	GAVRTWGRGFQTEKCQASLLNFWNPPT TAQVTIEAEPTKVSKGKDVLLLVHNLPO NLAGYIWYKGQMKDLYHYITSYVVDGQ IIYGPAYSGRETVYSNASLLIQNVTRDA GSYTLHIVKRGDGTGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLDVLPVISAEPSPRS GFPVSKGFKDNWKFHHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQHCMLQVRTT SVETPKPSISSSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTNLNLLPKLPKPYITINNLPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILILPSVTRNETGPYQCEIQDR YGGIRSYPVTLNVLYTTKHSGLYACSVR NSATGMESSKSMTVKVSAPSGTGHLPG NPL
3027	11078	A	3972	1	1008	
3028	11079	A	3973	3	1374	
3029	11080	A	3974	1	1854	
3030	11081	A	3975	1	1319	
3031	11082	A	3976	1	2247	
3032	11083	A	3977	1	1993	
3033	11084	A	3978	1	1006	
3034	11085	A	3979	3	1095	AQLTAVLRKFLDPRLISTEENTQAAETM GPLSAPPCTEHIKWGGLLVASLLNFWN LPTTAQVTIEAQPPKVSEGKDVLLLVHN LPQNLTGYYIWYKGQIRDLYHYITSYVVD GQIIYGPAYSGRETAYSNASLLIQNVTRE DAGSYTLHIKRGDGTGVTGYFTFTLYL ETPKPSISSSNLNPREAMETVILTCDPETP DTSYQWWMNGQSLPMTHRFQLSETNRT LFLFGVTKYTAGPYECEIWEISGSASRS PVTLESP/RMGPDLPRIFFSSPLNYFRER NLGFVPGLGDF*TPPAQYSWTINGKFQL SGQKLFIPQITPKHNGLYACSAARNATGE ESSTSLTIRVIAPPGLGTFCQ
3035	11086	A	398	653	1139	RPFFPPHSESQNPQR/PDSSPTGTST*PA DTHCPRPVSQAQGGTAEG**PRVHG PLPHSIGSAPPQCQEGAPAGEWAREPGE DGVPGAPGQN*GKMEFSGAG/GQVPSR VVEGVQSHLRSEGPACPAVPCAAEGP DGRPGNTGRGGPGLRNORRWEW
3036	11087	A	3980	3	1442	IRADPAHELENCSCPGKRLSTERGRTAQ LTAVLREFLDPRLISTEENTQAAETMGL SAPPCTQRIKWGLLLTASLLNFWNLPT TAQVTIEAQPPKVSEGKDVLLLVHNLPO NLTGYYIWYKGQMRDLYHYITSYVVDGEI IIYGPAYSGRETAYSNASLLIQNVTRDA GSYTLHIKGGDGTGVTGRFTFTLHLET PKPSISSSNLNPRETMEAVSLTCDPETPD ASYLWWMNGQSLPMTHSLKLSETNRTL FLLGVTKYYLQDPIECEIRNPVSASRSDP VHPGISCPKLPKPYITINNLPRENKDV NFTCEPKSENYTYIWWLNGQSLPVSPRV KRPIENRILILPSVTRNETGPYQCEIRD GGVRSDDPVTNLNVLYGPDLPRIYPSFTYY RSGEVLYLSCSADSNPPAQYSWTINEKF QLPGQKLFIRHITTKHSGLYVCSVRNSAT GKESSKSMTVEVSGKVDPKHRWQ

3037	11088	A	3981	79	1565	EASLLEDDDDMMVYLRPLTSHQYRTAQL RAMLRKFLDPRLSSTEENTQAAETMGPL SAPPCTQRITWKGLLLTASLLNFWNPPTT AQVTIEAEPKVSQKDVLLLVHNLQPN LAGYIWKYQGMKDLHYHITSYVVDGQII IYGPAISGRETIVSNASLLIQNVTRDA GSYTLHIVKRGDGTGETGHFTFTLYLE TPKPSISSNNLYPREDMEAVSLTCDPETP DASYLWWMNGQSLPMTHSLQLSKNKR TLFLFGVTKYTAGPYECEIRNPVSASRSD PVTNLNLLPKLPKYITINNLNPRENKDVL AFTCEPKSENYTYIWWLNGQSLPGSV RVKRPINENRVLIFTPCSRGIETGPYQCEI RDRLWVGLRSLPSSPWNVPLMGPDLPRI YPIYFTYLPFQGGKPSDLSWLSRES*PHR AGVFFWQGFNGGSFSGIQGQKLFIPIITT KHSGLYACSVRNSATGMESKSKMTVKV SAPSGTGHLPLNPL
3038	11089	A	3982	1	2045	MLEAAVHAPGNSDVTRTRCATQVLKPL VSYGQAETGFSVPQLKYPPWDGLLRDI PPGTLPVEHSPCSLAALQFLNATSTHGE SAFARRKLESSFSQHSLQEGHRHGSRLSP SGAPVKDSGSRTAPGSRGGQHPSQLLL CGRDDLFQASSGHGPFLLFPPELPSRDA LQLLREASKFPTDKRQGRSWSVAITNTA ATSLEWVPFHAFAPRSTLVSQQLSTER GRTAQLTAVLREFLDPRLISTEENTQAAE TMGTLSAPPCTQRIKWKGLLLTASLLNF WNLPTTAQVTIEAEPKVSQKDVLLLV HNLQNLGTGYIWKYQMRDLYHYITSY VVDGEIIIIYGPAISGRETAYSNASLLIQN VTQEDAGSYTLAHIKRRDGTGGVTGHF TFTLHLETPKPSISSNNLNPREAMEAVILT CDPATPAAGYQWWMNGQR/LSPMTHR LQLSKTNRTLFIQVTKYIAGPYECEIRNP VSAISRSDPVTNLNLLPKLPKYITINNLN RENKDVLNFTCEPKSENYTYIWWLNGQ SLPVSPRIVKRPINRILILPSVTRNETGPY QCEIRDYGGIRSDPVTNLNVLYGPDLPRI YPSFTYYRSGEVLYLSCFADSNPPAQYS WATINGKVFSLAQGGKLSIPQITTKHSGLY ACSVRNSATGKESKSKITVKVSDWILP
3039	11090	A	3986	212	461	TEEHLYSPHWKGCGRKVKRLFQVRRGR GWIQTRQPGSMVKEPPLSEAGAESHVSC /RQGDCSRPPSFPLSPERVTPWLPDSHTW

3040	11091	A	3987	1	2353	MRPPRAPVVPDLGGPRLCPVPAAGGAR SPSSPYSVETPYGFHLDLDFLKYIEELER GPAARRAPGPPTSRPRAPRPLAGARS PGAWTSSESASDDGGAPGILSQGAPSG LLMQPLSPRAPVRNPRVEHTLRETSRRL ELAQTHERAPSPGRGLVREQMAAALRR LRELEDQARTLPQLQEQVRALRAEKARL LAGRAQPEPDGEAETRPDKLAQLRRLTE RLATSERGGRARASPRADSPDGLAAGRS EGALQVLDGEVGSLDGTPQTREVAEEA VPETREAGAQAVPETREAGVEAAPETVE ADAWVTEALLGLPAAAERELELLRASLE HQRGVSELLRGRLELEEAREAAEAAA GARAQLREATTQTPWSCAEKAAQTESP AEAPSLTQESSPGSMDGDRAVAPAGILK SIMKKRDGTPGAQPSSGPKSLQFVGVLN GEYESSSEDTNDSGDSENGAEPPGS SSGSGDDSGGSDSGTPGPPSGGDIRDPE PEAEAEPPQVAQGRCELSPLREACVAL QRQLSRPRGVASDGGAVRLVAQEWFRV SSQRRSQAEPVARMLEGVRRLGPELLAH VVNLADGNGNTALHYSVSHGNLAIASLL LDTGACEVNRQNRAGYSALMLAALTSV RQEEEDMAVVQRLFCMGDVNAKASQT GQTALMLAISHGRQDMVATLLACGAD VNAQDADGATALMCASEYGRLDTVRL LLTQPGCDPISILDNEGPSALAVALEAET GMKVAALLHAHLSSGHPDQTSGVTPLA PQTANTW
3041	11092	A	399	2	510	FLANFLCFIRD/GFHHVVGQDGLHLLTS*S ACLGLPKCWDYRREPLRPTSPLLSRPHQ ALCCLAFGHSAACTCTCVN/SALAWAGF WNPQAPGF/SVAPAHLLTHTVSLSPMPL WATCSPGAGHEAPGLMLQDPFGPPWCS CGPVFHEKTAGCKARAFSGRVCRCQAQ ALPETGR
3042	11093	A	3990	53	364	RSKVEAGLAPEPGPLGARVGS/PGTRAR HGRPGVPAIGASIGPGCGPNEQVDEQAGP AQLQGPQGPAPRAIGFPHRLRGGSCKI KGDGPGVRRPGSDRLSSSSPT
3043	11094	C	3991	408	620	
3044	11095	C	3992	64	300	MDSSHSTTLXPTANPNTGLVEDLDRTGP LSMTTQQSNSQSFSSTSHGLEEDKDHT TSTLTSSNRNDGHRWKKRPKSF*
3045	11096	A	3993	1	530	
3046	11097	A	3994	1	436	
3047	11098	A	3995	3	1009	
3048	11099	A	3996	1	2226	
3049	11100	A	3997	2	1599	QPLPGSVRHRPVLRRPLPRAQSSSSFR PRPPFAPDTMDKFWWHAAGLCLVPLS LAQIDLNITCRFAGVFHVEKNGRYSISRT EAADLCKAFNSTLPTMAQMEKALSIGFE TCRYGFIEGHVVIPRIHPNSICAANNTGV YILTSNTSQYDTYCFNASAPPEEDCTSVI DLPNAFDGPITITVNRDGTTRYVQKGEYR TNPEDIYPSNPDDDVSSGSSSERASSTSG GYIFYTFSTVHPIDEDSPWITDSTDRIPA TNMDSSHSTTLQPTANPNTGLVEDLDRT GPLSMTTQQSNSQSFSSTSHGLEEDKDH PTTSTLTSSNRNDVTGGRDPNHSEGSTT LLEGYTSHYPHTKESRTFIPVTSKTSFSF GVTAVTVGDSNSNVNRSLSGDQDTFHPS GGSHTHGSESDGHSHGSQEGGANTTSG PIRTPQIPEWLILASLLALALAVCIAVN SRRRCGQKKLVINSNGAVEDRKPSGL NGEASKSQEMVHLVNKESSETPDQFMT ADETRNLQNVDMKIGV

3050	11101	A	3998	245	1148	FPGSTPTPFAPDTMDKFWWHAAWGLCL VPLSLAQIDLNITCRFAGVFHVEKNGRYS ISRTEAADLCKAFNSTLPTMAQMEKALS IGFETCRYGFIEGHVVIPRIHPNSICAANN TGVYILTYNTSQYDTYCFNASAPPEEDC TSVTDLPNAFDGPITITIVNRDGRYVQK GEYRTNPEDIYPSNPTDDDVSSGSSSER ESTSGGYIFYTFSTVHPIPEDSPWITDS TDRIPATRDQDTFPPQWGFPLPLHGSEFR WDTHMGSQGRWEQTQPLGPIRDT PNSQ NGLIHLGHPLALGL
3051	11102	A	3999	3	327	AGPGEVAGDGRDGGFAGGRRRCWLNW SGSGKSLRKGNPSVSIYCFCLPNHYLFDR N/SCLRSSAGTKSGSYPPQISSMLILVPP CVPQQTHPGLDLKTQKLSLLSALI
3052	11103	B	4	3508	3762	MTPGVVHASPPQSQRVPRQAPCEWAIRN IGQKPKEPNCHNCGTHIGLRSKTLRGTPN YLPIRQDTHPPSVIFCLAGVGVPGLPV*
3053	11104	A	40	25	412	IQARKKQQSVLGKTEDQGTNLLRKGI MDIEAYLERIGYKKFTSKLDFETLTDILS HQIPAVSFDNLTVLCGDAMDGLGLEAIFD QAVR*NRAGGWNLQVNHLLYWALTTIG YETTKIGRYGYQTPAEK
3054	11105	A	400	249	434	IVEYRGMWDYRLLFFFPETESCSVAQVG TQWHDLSSLQPLSPGSSNSPASAS*VAGI TGTH
3055	11106	A	4000	8	280	SAQMAVTTADPRVRPRVRTTVFTSIAHT DTMVHLTPVEKSAVTALWAKVNVNEV GGEAPGQGCWVVLPLGPPKGPLKPFGGI CPNSLNAG
3056	11107	A	4001	405	647	
3057	11108	A	4002	405	606	
3058	11109	A	4003	1	849	
3059	11110	A	4004	2	1173	PQQSPECVPLPVSVCSHWSIPTSHRLLR VLVTVECELYVRWPRCNADLTCTKAVQ NGWDLKVP TCLHLLAVPGVGLFIDEG VKQGFSVETFRDTRGVLVHGCIMSCLCN NRVRPYLGKKQKSKKTTDVGVVEVESG RGCAAGAEVFQCMQQGSHSAAEGQES SSKVESGRHSYNLYLWVISPRTPASLQN LQILKCIRFWTWHEERFLYMLMEYVPGG ELFSYLRNRGHFSSTGLFYSAEIIICAEY LHSKEIVYRDLKPENILLDRDGHIKLTD GFAKKL\AYRLMWKSLSEKRWWVRCG GEAKER*Q*QQFGWVPASRKVRS*SQDT CPHHRKQGRRLRTWTLCTPEYLAPEVIQ SKGHGRAVDWWALGILIFEMLSGWVL
3060	11111	A	4005	149	1358	APPSHCLCVSVSRAEPRTRRRGRAWGAS VDAAAAAAPPSEASRGVRLPERSGLAR RPGPECLPMEAPGPAQAAAAESNSREVT EDAADWAPALCPSPEARSPEAPAYRLQD CDALVTMGTTGTRVHLVKEKTAKHFF ALKVMSIPDVIRKQEQHVHNEKSVLKE VSHPFILIRLFWTWHEERFLYMLMEYVPG GELFSYLRNRGHFSSTGLFYSAEIIICAE YLHSKEIVYRDLKPENILLDRDGHIKLTD FGFAKKLVDRTWTLCTPEYLAPEVIQS KGHGRAVDWWALGILIFEMLSGFPPFFD DNPFGIYQKILAGKLYFPRHLDFHVK/DG ANDVNHRWFRSVDWKAVPQRKLKPI VPTIAGNGDTSNFETPEHDWDTAAPVP QKDLEIFKNF
3061	11112	A	4006	1	683	



3062	11113	A	4007	521	1163	SQDTCPHHRKQGRRLRTWTLCTGPEYLAP EVIQSKGHGRAVDWWALGILIFEMLSG AFPKHVSSNASPGLQNWGRFPFFDDNP FGIYQKILAGKLYFPRHLDFHVKCQTPK EKQKTKNKVIFLHARHQKQKNTNNNN SNNKMKFIKNGANDVKHHRWFRSVDW KAVPQRKLKPPIVPTIAGNGDTSNFETYP EHDWDTAAPVPQKDLEIFKNF
3063	11114	A	4008	181	1448	APPSHCPRRSVSRAGPRTRRRERAWGAS VDAAAAPPSEAASREARLPERSGLARCP GPECVPMEAPGLAQAAAESDSRKVAE ETPDGAPALCPSPEALSPEPPVYSLQDFD TLATVGTGTGRVHLVKEKTAKHFFALK VMSIPDVIRLKQEQHVHNEKSVLKEVSH PFLIRLFWTWHDERFLYMLMEYVPGGEL FSYLRNRGRFSSTTGLFYSAEIIICAEYLYH SKEIVYRDLKPENILLDRDGHKLTDFGF AKKLVDRTWTLCTGPEYLAPEVIQSKGH GRAVDWWALGILIFEMLSGFPPFFDDN PFGIYQKILAGKUDFPRHLDFHVKDLIK KLLVVDRTRRRLGNMKNANDVKHHRW FRSVDWEAVPQRKLKPPIVPKIAGDGD TSNFETYPPENDWDTAAPVPQKDLKIFKNF
3064	11115	C	4009	3	167	MPMXAQIEEPQPIQVKTTRTNLRLTQLRE QDQTQKCLCPLYNQAPRKKFLLLWA*
3065	11116	A	401	532	986	PWAKLGLSCVPAWQVQVLAICRWKEVG ILDFFLVFFFLR*SL/DSDTQAGVQWC DLGSLQTPPLPGFKWFSCLPSSWDYRH APPRSADFCIF/M*RWGFTMLAKLVSNS* PQ/CDLPASASQSAGITGVSQCTRRNLGIF IDGTSVSDSSRT
3066	11117	A	4010	1	2195	MDPGTLQSASQGPTAINPCDYVLKRRNI QTSWQRLTPIKWHVYILMIGPGEKEAG RNLGIFGKWTPFKIPAKRLRESNCPVDA QEIWLPQAFREYLGRRGNGFGPGRRTCEF WEVESICSVESWELWLRQADSGDSGKC SPDACGIIDTSGLRAGHCYLRWLWHVSG RIPPSFKLHHPGVCKFPKVGGKMTTFKE AVTFKDVAVVFTEELGLLDPQQRKLYR DVMLENFRNLLSVGHQPFHQDTCHFLRE EKFWMMGATATQREGNSGGKIQTELESV PEAGAHEEWSCQIWEQIAKDLTRSQDS IINNSQFFENGDVPSQVEAGLPTIHTGQK PSQGGKCKQSFSQSDVPIFDLPQQLYSEEKS YTCDECGKSICYISALHINQVRHMGKEC YKCDVCGKEFSQSSHLQTHQRVHTGAEK PFKCGIQCCKGFSRRSALNVHKLHTGE KPYICEACGKAFIHDSQLKEHKRIHTGEK PFKCDICGKTFYFRSRLKSHSMVHTGEK PFRCDTCDSFHRQSRALNRHCMVHTGE KPYRICEQCGKGFGRDLDFYKHQVVTG EKPYNCKEKGKSFWRSSCLLNHQRVHS GEKSFKCEECKGKFYTNSQLSSHQRSHS GEKPYKCEECKGKYVTKFNLDLHQRVH TGERPYNCKEKGKNFSRASISILNHKRL H/SPEKNPFKCEDCGKRLVHRTYRKDQP RDYSGENPSKCEDCGRRYKRRNLNDILL SLFLNDT
3067	11118	A	4011	1	4559	MDGAKAFFSAVAAGFVILTCQLQWQW QHGGVHAHQLWQLASGYRDACFCVST YSSGPSEFPPTLGTNLALDLEERKHR RKAKVWKGEGGGLRSPRQSLAFAVL ASRGTRSCHVSPYLGVSALSSPNPHPST TGAGPIPPVQRWGLPQINQKNREIAIPLT LGMSTHLRRGCKNMSRFSPLHCCTTPIS TNFTDPGSHCKGAHGDIQLLQNLKAL PMSINRSYFNAHPLLQISEAVTFKDVAV VFT

3068	11119	A	4014	1	1387	FRAASGRETRAALGASQCLTPHPLPRVG GGGASGGGLRGAGQAWSAMSSPDAGY ASDDQSQTQSALPAVMAGLGPCWAES LSPIGDMKVKGEPANSGAPAGAAGRA KGESRIRRPMAFMVWAKDERKRLAQQ NPDHNAELSKMLGKSWNA/LTLAEKRP LVEEAERLRVQHMQDHPNYKYRPRRRK QVKRLKRVEGGFMHGMDEPQAAAMGP EGGRVAMDGLGLQFPEQGFAPGPLLPP HMGGHYRDCQSLGAPPLDGYPLTPDTS PLDGVDPDPAFFAAPMPGDCPAAGTYSY AQVSDYAGPPEPPAGPMHPRLGPEPAGP SIPGLLAPPSALHVYYGAMGSPGAGGGR GFQMOPQHQQHQQHQQHPPGPGQSPSP PEALPCRDGTDPS/QPAELLGEVDRTEFE QYLHFACKPEMGVLPYQGHDSGVNLPDS HGAISSEVS DASSAVYYCNYPDV
3069	11120	A	4019	77	407	ESDGGKRKKKSRGDPSQLEEKISKGCPO RRKKPRLYRPSNYNRAFRRMR/ARLPT RTSPETRTPQPHSPHSVPERTPTPPGRPP FLGAGQLQRLFMGIPQVGDCCPPSS
3070	11121	A	402	2	992	FVDAAGCPLRCSVVTGIVVLQKSGNRPE DLRAAQLPGRLELLNNFCSAMSPAPDA APAPASISLFDLSADAPVFQGLSLVSHAP GEALARAPRTSCSGSGERESPERKLLQG VLWTISEKLCSTCDQTFQNHQEQREHY KLDWHRFNKQRLQGGQPLLSALGL*KA ELHRRSFPAFSGIRRIQDSASEEDLQTL RERATFEKLSRPPGFYPHRVLFQNAQQQ FSLCLPLCPR/LLIRIPQKRQNLTLRTLS RGPRDCVVLMAAAGHFAGAFQGREVV THKTFHRYTVRAK/QGHSQGAFG/NARG GPSHSAGANLRVRYNEATLYKVS
3071	11122	A	4020	20	463	
3072	11123	A	4021	572	1594	SSDWKRTMSWIKEGELSLWERFCANIK AGPMPKHIAFIMDGNRRYAKKCQVERQ EGHFTGFKQLAETLRWCLNLGILEVTYV AFSIENFKRSKSEVDGLMDLARQKFSRL MEEKEKLQKHGVCIRVLGDLHLLPLDLQ ELIAQAVQATKNYNKCFLNVCFAYTSRH EISNAVREMAWGVEQGLDPSDISESL DKCLYTNRSPHPDILIRTSGEVRLSDFLL WQTSHSCLVFQPVLPWEYTFWNLFMAIL QFQMNHSLVQKARDMYAEERKRQQL RDQATVTEQLLREGLQASGDAQLRRTRL HKL SARREERVQGFLLQALELKRADWLA RLGTASA
3073	11124	A	4022	2	365	
3074	11125	A	4023	1	464	RRWRICSTWTRSFATAWLPPAPSANFPR TDRSQGDRGAPAGFALAPILEFFLWDT'S SQKFLQKPHCFMHGRERAKMGRRAQQE SAQAENHLNGKNSSLTLTGETSSAKLPR CR/QGGWAGDSVKASKFRRKASEEIEDF RLRPQSLNGSDYGGDIP
3075	11126	A	4024	254	662	
3076	11127	A	4025	3	392	MKYSAIQTLDGEIDLKLLTKVLAPHEV R*VQWWQQFPLSTLAIPINPAELPGLAL CLP*RPWNGREKVSQREKALSYP KPFLEDDVGWDWDHLFTEVSSEVLTE WDPLQTEKEDPAGQARHT
3077	11128	A	4026	63	779	GPIRGPWGPFGGWWGATPPAPTSRRL RAAGLAPRRRAKMGRRAQQAESAQEN HLNGKNSSLTLTGETSSAKLPRCRQGGW AGDSVKASKFRRKASEEIEDFRLRPQSL NGSDYGGDIPNPDLEEVQEEDFVLQVVA APPSIQIKRVMTYRDLNDNLMKYSAI QTLDGED/IDLKLL/TPKVLAPHEVRER NPSWQDDVGWDWTHLFTEVSSE/VSFT EWDPLQTEKEDPAGQARHT

						EWDPLQTEKEDPGGQVARHT
3078	11129	A	4027	2	311	
3079	11130	A	4028	1	136	
3080	11131	A	4029	2	170	
3081	11132	A	403	2583	3827	DRVSLLLPRLECNGAILAHCNLC/SGFK *FSCLSLPSNWDYREVPPHQLIFVFLVE MGFHHIAQAGLELLTS/SI/PPTLA/FPKC WDYRR/DHHAWLFFFCSENSFTLLPRLE *GGLISDHCNLRLLGSSDLPASASQEPRL QACATTPR*FLYFW*RRGFTMLARLVN S*PQV/HPPASASQSAEIIIGVSHHTWPQEV FLFLNLFYLRWSLALSPRLECSDGISAH CKLRPPGSSVLLPQPPE*LGLQAPATTPG* FFCIFS RDGFSPC*PGGS*SPDLVICLPRPP KVLGLQV*ATTPGYFYFFETGTHSVTWA AVQWYTIAHCSLELLSSDPPTSSSQVIG TTGAPHHAHLYLFIYLFIFIEMRVPV QAGLELLSSRDPAWASQSAEITGMSHR AQLGHFKAPRMSV
3082	11133	C	4030	64	276	MCKALGTPYSPQQRLGTEASSVHRTC WHLLGQGSAAARXXXXXXXXXXXXXXXXXX XXXXXXXXV SIDPTTQG**
3083	11134	A	4031	3	295	
3084	11135	A	4032	3	279	
3085	11136	A	4033	3	392	RIRHEAAAKGAAAMSAHLQWMVVRNC SSFLIKRNKQTYSTEPNNLKARNSTRYN GLISPARLWGVEPAADGKGVVIVIKR RSGQRKPAITSYLRTTINKNARATLSSIR HMIRKKNKYRDLAHGHAGI
3086	11137	A	4034	2	562	VAAAKGSRRLQCLRHQWMVVRNCSS LIKRNKQDPTALSPNNLKARNSTRYNG LIHRKDCGTWSRSADGKGVVIVIKR SGQRKLATS YVAGPPSTRNARSHASGR HQ/VHIDPARNKLPPPTCRMGS PFRAQR PFLAQAGRLVDWLKEGRDPAPPRSLK PLGPQKQLKSAGVFSKKKKKSR
3087	11138	A	4035	1	139	
3088	11139	A	4036	1	299	VGIW*PVTNFGVISGTKAIEMD*G/TPYIH ALTNGLLTVEAPHK/ERIALKPGYGK YLS INDEL VV/GRSDAIGPREQWEPVFQNDG HPVMRMNSLOLKATI
3089	11140	A	4037	796	911	AMA*YSYVKSSKLVKGTSSKKKSTDK KRKREDEETQLD/IVGIW*TVTNFGEISG TJAIWNGRKGTYIHALDNGLFTLGAPHK /ERIALKSGYGK YLGINS DGLVVGRSDAI GPREQCEPVFQNGKMALLASNSCFIRC EAGDIEAKSKTAGEEEMIKIRSCAERETK KKDDIPEEDKGNVKQCEINYVKKFQSFQ DHKLKISKEDSKILKKARKDGLHETLL DRRAKLEADRYCK
3090	11141	A	4038	193	754	EPSRGVWPHE DARINGSKKKKSKKKR KREDEETQFD/IVGIW*TVTNFDEISGTI AIEMDEGTIHALDNGLFTLGAPHKEGK MALLASNGCFIRCNEAGDIEAKSKTAGE EEMIKIRSCAERETKKKDDIPEEDIGNVK QCEINYVKKFQSFQEHKLKISKEDSKILK KAQKDGLHETLLDRGP

3091	11142	A	4039	213	919	YVQSLKQILS/GCI*ESIAIKKKKNKDKKR KREEDEETQLDIVGIWWTVTNFGESGTI AIEMDKGTIYHALDNLFTLGAPHKEVD EGPSPPEQFTAIVKLSDSRALKSGYGKY LGINSDDLTVVGRSDAIGPREQWEPVFK MGKMALSTNSCFIRINHEAEDIEAKSKT AGEEEMIQGSP*SSVQPFHLLWTFAFILT QEHRSLLLKIRSCAERETKKKDDIPEEDK GNIKQCEI
3092	11143	B	404	1	336	MGRARWLTIVIPALWEAEAGGSREVEE YMGAEAVKSWTSSMFKEWDEKVRREK TSSRRARAAQCGGVFESPEYVHLLKVFL EDLDKQQQTNSKASRRQEIKIRAELEIK T*
3093	11144	A	4040	802	1463	AEATALENPLEESRPHEGARINGSK SKDKKRKREEDEETQFD/IVGIWWTVIN GGISGTIAIEMDEGTIYHALDNLFTLGA PHK/ERIALKPGYGKYLNSDELVV/GRS KAIGPREQWEPVFQNGACAAGFTVIGSE KQSECSLLRESRAKYHGCTHGQISSSLK QHPRWMYSHQEDLKVWSLVEKKVTFE HIYLLKRNNSHHSIAEAMYGRLSNYI
3094	11145	A	4041	879	1051	GGARYHFFFFFFFDGACSVTQAGVQWP ILGSLQPPPPRFKQFSCSLPSSWDYRRD
3095	11146	A	4042	125	1366	RDSSSTLSHKSACACGFFPSTHKS RFTSVRCLKYKSAKSFHLHIGYREAAVWC CQRLVPCTRRTOESSLDFATNLQHS RLCRRGASRTSSAARSRSRSPAVEGCNR SPGAPQAPARRRRPSRGAPGRAMVKV AFNSALAQKEAKKDEPKSGEEALIPPD AVAVDCKDPDDVVPVQRRWCWCM CFGALFMLAGVILAGGAYLYKFALQPD DVYYCGIKYIKDDVILN/ESPSADAPAA LYQTIEENIKIFEERRSLNFISVPVPEFAD SDPAKIVQDFNQETYPYLDNFADKCY VIPLNTSMCYATPKTLELLINIKAGNLF ALSPYLDMSRHMGYLLDRIVENIDHPGF FIYRLCHDKETYKLAQRRETIKGIQKREAS NCFAIRHFENKFAVETLICS
3096	11147	A	4043	42	557	QAGKLRPGGLSRSRSSAAGLDRDQGL HRVAFLPKRRRTGGTRMDRSATAATAPP AAPAGEGGPPAPPNLTNSRRLQQTAAQ VDDVVDIMRVNVDKVLERDQKQSELDD RC/ADALQAGASQFETSAAKLKRYW WKNLKMMIILGVICAILIIIVYFQHLNP RGVCPA
3097	11148	A	4044	178	731	SSERCHQQVFIPMPALPPGFVSQAGSCVP TGSSLVLACLLAASLLFVPTLALLTGATT CWCLHNKRLAV/RRPLAWAGAFGLVS TRLIHGRTSFYFNSLPPLQTNSTCQNMH SWDSGGRGDLWPPLAAPRRVGLDLCS QAHTCQQGADWIHALLCLMGVTGVPTA LPAKHLEQNTSPFVVDAAE
3098	11149	A	4045	3	155	
3099	11150	A	4046	100	448	WWEVKGMSHGQKNKQEGGAIFRACV CVMESHVTRLECSGAISAHCNRLQGS SNSPDSASRVAGTTSTRHEAQLIFVFLAE TGFHHVGGAALELLTSSDPPTSASQSAD MLYK
3100	11151	A	4047	151	461	RLTAAATASLCPLRPVTRLPLSRGSKM KEGMSNNSTTSISKPRKAVEQLKMEAC MDRVKVSQAAADLLAYCEAHVREDPLI IPVASENPFREKKFFCTIL
3101	11152	A	4048	1	447	
3102	11153	A	4049	553	1938	
3103	11154	A	405	2	313	FFFFLRRSLALSPRLECSGVISAHCKLRP GSR/RFSCLSLSHSWDYRRPPRPANFLY FLVEKGFHCVSQDGLHLLTS/AIPP/TS/F

						PKCWDYRCDMFLMVSKD
3104	11155	A	4050	303	478	DCTSRPSLCPLSARCDVHGLSPGPVLVR* GLIVIEDALPKSHSGGRGEVRQPWDFCG A
3105	11156	A	4051	458	964	DPRTMNLAIISIALLLTVLQVSRGQKVTSL TACLVDQSLRLDCRHENT/SAVSPIQYEF SLTRETKKHVLFGTVGVPEHTYRSRTNF TSKYNMKVLYLSAFTSKDEGTYTCALH HSGHSPPISSQNVVPFRDHGVKICEGISL LAQNASWLLALLLSLSLLQATDFMSL
3106	11157	A	4052	411	557	YSTDELPNIKISTSGRLQWLMSIIPALWE A/EDQAGRSFEFRNLRLVWTT
3107	11158	A	4053	508	1220	PLPPAATPCPKKQLGSQAWACRAARGA EQGVWGWWRKHPAPSRGRVDKGSTKQK DPSPAHTTSTLNYQMHSCH/KRRHTHT HTHTHTHTHTHTHTROHNIPGGSPDQE EAGQVVEKKAANPSHNPTLQDRRVSSIL SCCKRKLEAPSPEQISMVGPGRGSLWFP HWQRRQEPAKCSFGLKEQWGGDFSRM NRLMGPGVNPSTSPFWSRKLHKGKDV CWLHRHAKCLSARCPRIWRVW
3108	11159	A	4054	1609	1807	DRVWLLPRLEYSGMVSAHCNTHLLGSS QSPTSASQAAGTTGAHHYVPLVYIYIY ILGFLVETFR
3109	11160	C	4055	169	297	MILEFHXXXXXXXXXGGGRFKEPLGGPNLP GAGKVLFFSLWGAD*
3110	11161	A	4056	270	614	PFKFILITQVIRDPLFSSEPYLGEKANHPP GFHHVKGQQASHVCKTHPAPSCPP/PDC CLPCPSLGPAPHFRGCCMEFFPGKNFRC LDPFYLDNIFRFCSLVTPGGKEIARTFF
3111	11162	A	4057	637	890	TKWAGSIVYLSFSFLHMFMSFLLV/STF LALCMLILVVLFLKLKLPKLFSELPLKL TFLPCELLHLHLFQDLAYFFFNGLRK
3112	11163	A	4058	3	297	ATAARPCPGLGRRAGESRGPBGHIGVRPG STLCQHATCHMSVNDGGCKYVLCRWE KRLWPAKVLARTATSTKNKRRKEYFLA VQILSLEEKLSVVLF
3113	11164	A	4059	2	1940	CPGLGRRAGESRGPBGHIGVRPGSTLCQH ATCHMSVNDGGCKYVLCRWEKRLWPA KVLARTATSTKNKRRKEYFLAVQILSLE EKVKVSTEVEILEKSQIEAIASSLASQNE VPAA/PPEELAYRRSLRVALDVLSEGI WSQESSAGTGRADRSRKGKPMHVSSPC DSNSSSLPRGDVLGSSRPHRRPCVQSSL SSSFTCEKDPECKVDHKKGLRKSENPRG PLVLPAGGGAQDESGSRIHHKNWTLASK RGRNSAQKASLCLNGSSLEDDTERDM GSKGGSWAAPSLPSGVREDDPCANAEG HDPGLPLGSLTAPPAPEPSACSEPGECPA KKRPRLDGSQRPPAVQLEPMAAGAAPSP GPGPGPRESVTPRSTARLGPPPSHASADA TRCLPCPDSQKLEKECQSSEESMGNSM RSILEEDEEDEEPPRVLLYHEPRSFEVGM LVWHKHKYPFWPAVVRSVRQDKKA SVLYIEGHMNPMMKGFTVSLKSLKHFD KEKQTLNQAQREDFNQDIGWCVSLITDY RVRLGTWGAGEGWSWAAGVQPLKTPW TGWAGAAWRRGIFPWA WGIPCGWAGV LAWPDYFLNRDAGPAPGTHFLGLLLGLH SALSPPPPAGCGSFAGSFLEYAADISKS TGCI

3114	11165	A	406	4565	5027	LIGYILFCFFFFFFFLRQSLVLLPGLECSG VILAHCNPR/LPGFK*FSCSLPSSWNYR HAPARPVSVFLAEMGFHHIGQAGLKL LT/SV/IPPTSA/FRKCWDYRREPPRTAF FVLNKFVTLGSNSGF*T*DRINHFMRLY CNYTLEYSGSHL
3115	11166	A	4060	1	2722	MERPLRGSRHPRLPVPPGVLGSPQGHIG VRPGSTLCQHATCHMSVNDGGCKYVL CRWEKRLWPAKVTAII/RVTSGLRNDFR VTKTSVTGPSILKYLVEFVTLNQRLTFK RQITDDQAAHCSAPIKVKSTEVEILEKSOI EAIASSLASQNEVPAAPLEELAYRRSLRV ALDVLSEGSISQESSAGTGRDNRSRLRG KPMEHVSSPCDSNSSSLPRGDVLGSSRPH RRRPCVQQLSSSFTCEKDPECKVDHKK GLRKSENPRGPLVLPAGGGAQDESGSRI HHKNWTLASKRGGNSAQKASLCLNGSS LSEDDTERDMGSKGGSWAAPSLPSGVR EDDPCANAEGHDPGLPLGSLTAPPAPEPS ACSEPGCEPAKKRPRLDGSQRPPAVQLE PMAAGAAPSPGPGPGPRESVTPRSTARL GPPPSHASADATRCLPCPDSQKLEKECQ SSEESMGNSMRSILEEDEEDEEPPRVLL YHEPRSEFVGMLVWHKHKKYPFWPAVS WDESTRGWISRLKAAFRTIALHIPKSNAQ NRCHLTSPSLRVPGAHLRSDQPKPSGPR CPPAFRPAQAIGSPVPTCVQISPSHRVPG AHLRSDQPKPSGPRCPPFEQLRAQTCAW CVSHLPEGPCARRLPEPPLSGRNQAREDF NQDIGWCVSLITDYRVRGCGSFAGSFL EYYAADITSRACPGALIPWATSSVSLLW LVAAHIRCCECRPGASFAGYPVRKSIQ QDVLGTLKLPQLSKGSPEEPVVGCPGQR QPCRKMLPDRSRAARDRANQKLVEYIV KAKGAESHLRAILKSRKPSRWLQTLSSS QYVTCVETYLEDEGQLDLVVKYLQGVY QEVGAKVLQRTNGDRIRFILDVLLPEAH CAISAVDEVYKTAEEKYIKGPSLKLPG KRNI
3116	11167	A	4061	57	235	
3117	11168	A	4062	754	1767	WTSWWMSVLTILLFSLQGNKMLNYS PSAGGCLDRKAVGTPAGGGFPRRHSVT LPSSKFHQNLSSLKGEPALSSRDSR FRDRSFSEGERLLPTQKQPGGGQVNSS RYKTELCPFEENGACKYGDCKQFAHG IHELRLSLTRHPKYKTELCRTFHTIGFCPY GPRCHFIHNAEERRALAGARDLSADRPR LQHSFSFAGFPSAAATAAATGLLDSPSTI TPPILSADDLLGSPTLPDGTNNPFAFSSQ ELASLFAPSMGLPGGGSPPTFLFRPMSES PHMFDSPSPQDSLSDQEGYLSSSSSHS GSDSPTLDNSRRLPIFSRLSISDD
3118	11169	A	4063	568	715	
3119	11170	A	4064	65	347	GLPAPLPPP/PPRSLPFPAPGLRSQRFSTSA PPRHARPPPVARARAAPHPQASGRKSQ VSAPLVERAPLRAPGLTATAVVTVLGDP ACAFPLEM
3120	11171	A	4065	1648	1974	KVFFCFYRIYVCICVCVCVCV/TLQTL/C YSIANMLTSSQCLQSCGSQSWCMHIKS SKAIMTIPCKFISRKPWEGDCSSLEPHGV SAFDIWWPQLCIKKVLNHFSPRKN

3121	11172	A	4066	12	1662	FLRGGCCFCYMTQCQRPSLRPTALLPERS VPPLPPAAPPVRPVRHPPVAAPPARRCPAP APPPFPDDWVMLDMGDRKEVKMIPK SSFSINSLVPEGLQNDNHHASHGHHNSH HPQHSHHHHHHHHHPPPPAPQPPPPRAA QQQQPPPPPLAPQAGGAAQSNDEKGPQL LLLPTDHRPPSGAKAGGCCRPGEGLP VGPDEKEKGAGAGGEEKKGAGEGGKD GEGGKEGKKNKGKYEKPPFSYNALIM MAIRQSPEKRLTLNGIYEFIMKNFPYYRE NKQGWNSIRDNLNLNKFVKVPRHYD DPGKGNWMLDPSSDDVFIGGTTGKLR RRS/TTSRAKLAFKRGAAALTSTGLTFMD RAGSLYWPMSPFLSLHHPRASSTLSYNG TTSAYPSHPMPYSSVLTQNSLGNNSFSST ANGLEAWDRLVNGEIP/YTATHHLTAA ALAA/SVPCGLSVPCSGTYSLNPCSVNLL AGQTSYFFPHVPHPSMTSOSSTFMSARA ASSSTSPQAPSTLPCESLRPLSFTTGLS GGLSDYFTHQNQGSSSNPLIH
3122	11173	A	407	187	741	TRGTSAAARTGRSSGIASMASGILVNVKE EVTCPICLELLTQPLSLDCGHSFCQACLT ANHKKSMMLDKGESSCPVCRISYQPENIRP NRHVANIVEKLREVKLSPEQKVDHCA RHGEKLSIFCQEDGEGSFCWVC*AVFR EHRGSPHVSSQRRFAREYQVKLQAAL MLRQKQQAEELEADIR
3123	11174	A	4070	1	507	
3124	11175	A	4071	259	1409	FLLWRYFVFGIVTEEKEKVQPTVYLIQLL DLLKAIT/SPHLEAGSKPSKKTGEKSSGS SSHSESKKEHHRKKVSGSSGELPLEDGV SHKSKKMKPLYVNTETLTLREPDGLKM KLILSPKEKGSSSVDEESFOYPSQQATV KKSSKKSARDEQGALLGHELQSFLKTA RKKHKSSDAHSSVGPLKGLGLDASQ FRKSPHSANLDSLGLPILVESDSSSGGE LEAGELVIDDSSREIKKKKKSKSKKKK DKEKHKEKRHSKSKRSLGLSAVPVGEVT VTSGPPPSIPYAGAAAPPLPLPGLHTDGH SEKKKKKEEKDKERERGEKMGPSWKK ISSGLPLILHDGPWKNCFPNRYPVPKRL RTADLVGLYLGSQKHK
3125	11176	A	4072	436	2063	RRREVEGWYFGGFSHRRTVCIDTPDISS LESSQKKKKKSSPQSTDTAMDLLKAITSP LAAGSKPSKKTGEKSSGSFKAISGELKR EHHRKKVSGSSGELPLEDGGSHKSKKM KPLYVNTETLTLREPDGLKMKLILSPKEK GSSSVDEESFOYPSQQATVKKSSKKSAR DEQGALLGHELQSFLKTARKKHKSSSD AHSSPGPEGCGSDASQFAESHANLDSL GLEPILVESDSSSGGELEAGELVIDDSYR EIKKKKKSKSKKKKDKKEKHKEKRHSK SKRSLGLSAVPVGEVTVTSGPPPSIPYAG AAAPPLPLPGLHTDGHSEKKKKKEEKDK ERERGEKPKKKNMSAYQVFCKEYRVTI VADHPGIDFGELSKKLAEVWKQLPEKD KLIWKQKAQYLQHKQNKAEATTVKRK ASSSEGSMKVKASSVGVLSPQKKSPTT MLLPASPAKAPETEPIDVAHLQLLGESL SLIGHRLQETEGMVAVSGSLSVLLDSIIC ALGPLACLTTLQPELNGCPKQVLSNTLD NIAYIMPG
3126	11177	A	4073	323	539	PFMICLVHFCAPGNPPSARPRSPSPRCH PCAPQEGKMTHPQFRVMPAPSCYNWLL ENVPFIIQNSGVRIS
3127	11178	A	4074	27	425	GGGSGPRAPSATLLDTGESVAAVASGED KGIAASAAAAAVFACSCSPDPQSSTMNP VYSPVQPGAPYGNPKNMAYTGYPTAYP AAAPAYNPSLYPTNSPSYAPATLVMKQ

						AWPQNSSSCGTEGTFHLPVDTG
3128	11179	A	4075	1	434	
3129	11180	C	4076	117	251	MVPGPSLQNSWQASFNIPWPALPKPDLG PSPSVSPVDIFCGACC*
3130	11181	A	4077	58	313	SSKQKNPKESKTTKQNKIYTSYTQARP WGFPIFTPGLCFENTYKFFDQTTWKTLV KSSSSSSSSSPILFLFKM*VPIKFKN
3131	11182	A	4078	1	279	
3132	11183	A	4079	54	946	GGGSGPRAPSATLLDTGESVAASGED KGIAASAAAAAVFACSCSPDPQSSTMNP VYSPVQPGAPYGNPKNMAITGYPTAYP AAPAYNPPLYPTNSPSYAPFQFLHSA YATLLMKQAWPQNSSISCGETGTFHLPV DTGTENRTYQASSAAFRTAGTPYKVPP TQSNATAPPYSPSPNPYQTAMYPISAYP QQNLYAQGAYYTQPVYAAQPHVIHHTT VVQPNISPAIYPAPVAAPRTNGVAMGM VAGTTMAMSAGTLLTTPQHTAIGAHPVS MPTYRAQGTAPAYSYPVPHW
3133	11184	A	408	1234	1337	TRGPRGPADSCRKAWSEKAWQRGWWS WCPAAGASGGCGLHPWLW/PPEPWVE RATPT*GPCSRTPAGSPLPGFLRPLPA AVCRPPGSPCSETVLF*EAE/PT/P*APVRI GGTFQPCAVLLPARMKVVQSSTVR*/VT VTRLPVQKVEVAGGWPGSHEKTL/AA/ PAWGLDRKPLQAPRSQKPPNPQGTAES GQRWAHRYKCCFVSLTPCSSQLPVP*DL ASKG*PSHT*ILGSF*DLCLPA*PMLQGPC POPLSAP*VFLFPLSL*VGALIGPFLARPF SRGQLP*AWATPPWPS*PLAK/SPPDVAC SLVPGPSFSPSHPSAPVVEPHL*APGALN VLSPLDLMCIPSPASYVAAKAPQAVNGG SCHTSLPELT*P/PATSCIGILRAGPCSLM GPPRPVKPW*RLACLGLNSQCLTPQPK TGSVPYGPAPAVWVP/ERLPPPGSP/PAP IKVLPLMQACVDHVFPWPEPPPATGGQL PF
3134	11185	A	4080	1	502	RHEGGMWRAGSMSAELGVGCALRAVN ERVQQA/VARRPR/DLSPSQPRLVAV/SA KTKPADMVIEAYGHGQRTFGENYVQEL LEKASNPKILSLCPEIKWHFIGHLQKQNV NKLGMKSEFLIKRENIMPRTELNSPFSGV IYTWEITYPTSMFIIWWSFRKIKNCS
3135	11186	A	4081	171	1184	IPILIMKLLCCHKSSGDPYHLFAKSKH STLPFSLGLGVGPRGMWRAGSMSAELG VGALRAVNERNVQAVARRP/RGDLPAI QPRLVAVSKTKPADMVIEAYGHGQRT FGENYVQEL/LEKASNPKILSLCPEIKWH FIGHLQKQNVNKLMAVPNLFML/ETVG FCECLADKVNSSWQQRK/GSP/ERLKVGMG PGFNTSREEIYLFVSLSLEGKHGLPPSETI AIVEHINAKCPNL/EFVGL/MTLGSFGHD LSQGNPDPFQLLLSLPEE/ICGKKLNIPAE QVELIMGMSADFOHAVEVGSTNVRIGST IFGERDYASKKPTPDKCAADVKAPLEVA QEH
3136	11187	A	4086	1	265	AGNRLRFQLELEFVQCLANPNYLN/WYP QCLHMLELLQYEHFRKELVNAQCAKFD EQQILHWQHYSRKRMRLLQALAKQQQ QNNTSGK
3137	11188	A	4087	1	987	



3138	11189	A	4088	1	491	RGFRNFARVSGLLLCQAGGVLVSSFVM AAAVAMETDDAGNRLRFQLELEFVQCY ANHNTLIFLPQRIGYFKDKAFVNYLKYL LYWKDPEYAKYLYKYPQCLHMLGAAPN MEHFRKEAGWNAQCAKFIGWNRQVST LGKHYSRKRMRLLQALAEQQQNNTS GK
3139	11190	A	4089	55	858	EKGRARGRERRRKMQLTRCCFVFLVQG SLYLVICGQDDGPPGSEDPERDDHEGQP RPRVPRKRGHISPKSRPMANSTLLGLLAP PGEAWGILGQPPNRPNHSPPSAKGKKIF GWGDFYSNIKTVALNLLVTGKIVDHGN GTFSVHFQHNATGQGNISISLVPPSKAVE FHQEQQIFIEAKASKIFNCRMWEKVEVR GRRTSLFTHDPAKICSRDHAQSSSTWSVC SQPFKVVVCVYIAFYSTDYRLVQKVCPCD YNYHSDTPYYPSG
3140	11191	A	409	89	596	IILKTGSSLCHPRLECSGVILVHRNLR/LP GSSNSPASGSPVA*ITGARHHDRLIFVFL VEMGFCYVGQAGLELLTSSDPPTSASQS AGVTGVSHCARPSFAL*F*KSA*YNLELC LFYHH*YSKCIHFHFLDYNQCNLITINIE SSLIFSILLISTFYCYLAEIPR
3141	11192	A	4090	1	368	MRARNLMTKLTVISRKEELQOEAAHR EVQSLPPGEMEERSSSKTCPQVCDGRILS CMIKVPP/VGREKH*RPRGRSH*HEAGCG PFTPPKVDHHEHLPPRRVEAGSRQKST TEPFPQAAGW
3142	11193	A	4091	253	536	YLASLEIPQSKVPESRPSHQVPSSQSLDSE TPPSN/RHRQPPVDRKCVCR/LPLPPPTF RPPKVDHHEHLPPRRVEAGSRQKSTTE PFPQAAGC
3143	11194	A	4096	318	543	KSSWSRWAFGTVRSPCGRQHRDIGATD NSGRSGPAEQRPQSS/ASSAMSAAGGSRL TFHPRNLPPRTPTQDSAALT
3144	11195	A	4097	42	342	ENEILEVVQLGSRVCVFHFYHLHCCRHH CPENVHAG/CFGDCLG/HGRCSIQNCTFE R*I*VG*NNVAATAVMFGLVFPLVLSLK YQVYFFKVLALMNFCSSS
3145	11196	A	4098	1	1289	MYERVYVSTDIAIKLCKLLNRQFDRLY KKHSTGSASGEGLKALPLIVEGEGEVC ABITRQEREAGAVHLFGLTWQLQPVEGE LYANGVSKGNRGTESMDTTYSPIGGKVS DKSEKKVFQKGRAIDTGEVDIGAQVMQ TIPPGLFWRFQITIHHPIYLKFNISLAKDSL LGIYGRNIPPTHQDFVKLMDGKQLV KQDSKGSDDTQHSPRNLLTSLQETGFIE YMDQGPWYLAFYNDGKKMEQVFVLT AIEIMDDCSTNCNGNGECISGHCHCFPGF LGPDCARDSCPVLCCGNGEYEGHGCVC RHGWKGPECDVPEEQCIDPTCFGHGT MGVCICVPGYKGEICEEEDCLDPMCSNH GICVKGECHCSTGWGGVNCETPLP/EQC SGHGTFLLDAGVCSDPKWTGSDCSTE KGGSSRLFL
3146	11197	A	4099	1	4509	VRLEWPTDLAVNPMDNSLYVLDNNIVL QISENRRVRIIAGRPIHCQVPGIDHFLVSK VAIHSTLESARAVISVSHSGLLFIAETDERK VNRIQQVTTNGEIIYIAGAPTDCKIDP NCDCFSGDGGYAKDAKMKAPSSSLAVSP DGTLYVADLGNVRIRTISRNOAHLNDM NIYEIASPADQELYQFTVNGTHLHTLNL TRDYVYNFTYNSEGLGAITSSNGNSVH IRRDAGGMPLWLVPVGGQVYWLTISSN G
3147	11198	A	41	319	1002	

3148	11199	A	410	372	639	RAFWQYFKSLNMFMSFDPAILLIGIYPKE KS*IQK/DTLCPEVSEILLMVVKNYN*YIC HTRNDQAGLIY/HLYSGIYLALK*VCEFF TLKG
3149	11200	A	4100	338	8522	SEMEQTDCKPYQPLPKVKHEMDLAYTS SSDESEDGRKPRQSYNSRETLHEYNOEL RMNYNSQSRKRKEVEKSTQEMEFCETS HTLCSGYQTDMSVSRHGYQLEMGS DV DTETEGAASPDHALRMWIRGMKSEHSS CLSSRANSALSLTDTDHERKSDGENGFK FSPVCCDMEAQAGSTQDVQSSPHNQFTF RPLPPPPPPHACTCARPPPAADSLQRR SMTTRSQPSAAPAPTSTQDSVHLHNS WVLNSN
3150	11201	A	4101	139	520	LSLPLSPRLECSGTILARCNLHSPPRSKR FSCLSLPSSWDYRRAPPNLAIFLLFLV EMGFHHVGGTGLELLASNYLPTSA/FPK CWDYRHEPPCPADKTNFLSLWFIGYNIF LESEVNFFLPWDA
3151	11202	A	4102	7	497	
3152	11203	B	4103	93	182	PPPKALRRELPEEAAAEEERRKIEVPSEIE *
3153	11204	A	4104	51	394	WGGPGLKPLLMVLDPYRAVALELOANR EPDFSSLVSPLSPRRMAARVFYLLVSV CMCVCVCGAGTQRPEARTGTPPTCPLLA S*PVLSAQQILHVQKEKPYGRLLIQGPR FH
3154	11205	A	4105	427	499	
3155	11206	A	4106	796	2482	KTRGNMFYYPNVLQRHNGCFATIWL ATRGSRLVKREYLRNVVKTCEEILNYV LVRVQPPQGLPRPRFSLYLSAQLQIGVI RVYSQQCQYLVEDIQHILYRLHRAQLQ MRIDMETELPSLLPNHLAMMETLEDAP DPFFGMMSVDPRLPSFDIPQIRHLEAAI PERVEEIPPEVPTPREPERIPVTVLPEAI TILAEAEPLRMLEIEGERELPEVSRRELADL LIAEEEEAILLEIPRLPPAPAEVEGIGEA LGPEELRLTGWEPGALLMEVTPPEELRL PAPPSPERRPPVPLRRRRRRRLFWDK ETQISPEEFPRNNLQTRAHCWECPMVQ PPERTIRGPAELFRTPTLSGWLPELLGL WTHCAQPPPKALRRELPEEAAAEEERR KIEVPSEIEVPREALEPSVPLMVSLEISLE AAEEKSRISLIPPEERWAWPEVEAPEAP ALPVVPEIPEVPMEMPLVLPPELELLN WKTVHRAVALELQANREPDFSSLVSP LSPRRMAIARVFYLLVLSAQQILHVQKQ EKPIYGRLLIQGPRFH
3156	11207	A	4107	136	423	SPEHPQLPGSLLRPPGAQIPSEWQVAEAT ALVHTLDGWSVVQTMVVSTKTPDRKLI FGKGNFEHLKKELEAAWGEVDFRFTV VLHILRCNARTK
3157	11208	A	4108	1	212	RPPRRVVRGRHQPHGEPVRS GAPVRVP GEDDAAQPSAAERVGPRAVPGAGFTVH QHHRGGLHRRRRLRQ*RHQPHGEPVR SGAPVRVPGEDDAAQPSAAERVGPRAV PGAGFTVHQHHRGGLHRRRRLRQ

3158	11209	A	4109	1	1746	AGRRTPGAAALRGPRPLGSAGSRAVLP RARASRCRPQEPRESGGAVGRREGPAGG RRTKTERKTTTTRSRKMRTRTPRRSCCGE SLCCRRGPKRVCLVHPDVKGWPGKSQM TRAEWQVAEATALVHTLDGWSVVHTM VVSTKTPDRKLIFGKGNFEHLTEKIRGSP DITCVFLNVERMAAPTKELEAAWGVE GCLTAFTVVLQHL PACNARTK/ERARLQ VALAGDARLHRSNLKRDVAHLRYGVG/ SRAYIMGSGESFH/MQLQQRLLREKEAKI RKALDRLRKKRHLLRRQRTTRREFPVISV VGYTNCGKTTLIKALTGDAAIQPRDQL FATLDVTAHAGTLPSRMTVLYVDTIGFL SQLPHGLIESFSATLEDVAHSDLILHVR DVSHPEAELQKCSVLSTLRGLRLPAPLL DSMVEVHNKVDLVPGYSPTEPNVVPVS ALRGHGLQELKVELDAAVLKATGRQIL TLRVRLAGAQNLWLYKEATVQEVDP EDGAADVRIISNFPYGKFRKLFPRMN GRPQKACGVGASPALGELRRYPLCWGQ LGVRCSRVLVWFCTRLASQPFAGMYR ACR
3159	11210	A	411	136	251	IHQEKPPNIFSVKKRHYD*PGQHDPLASA SQSAGITGV
3160	11211	B	4110	50	382	XGEQLVRQDL DAGVSEHSGDWLDQDSV SDQFSVEFEVESLDESDYSLSEEGQELSD EDDEVYQVTVYQAGESDTSFEEDPEIS LADYWKCTSCNEMNPPLPSHCNRCWAH X*
3161	11212	A	4111	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3162	11213	A	4112	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3163	11214	A	4113	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3164	11215	A	4114	1	752	DL DAGVSEHSGDWLDQDSVSDQFSVEF EVESLDESDYSPSEGGQELSDDEDEVYQ VTVYQAGESDTSFEEDPEISLADYWK TSCNEMNPPLPSHCNRCWALRENWLPE DTGKDKGEISEKAKLENSTQAEEGFDVP DCKKTIVNDSRESCVEENDDKITQASQS QESDYSQPSTSSIIYSSQEDVKEFEREE TQDKEESVESSLPLNAIEPCVICQ/GST*K WLHCPWQNRTSYGLLYMCKEAKEKE
3165	11216	A	4115	426	813	SSRRFVWRAKLLCERAQSGTVYEI*QCA HRHPRHRHPGCCRHRLGYAGTAGPLAG YRPFQRHRSQSLWRAAIAICVDAISMRT SRSTVRPLWPPSPARFATWSHYRLRDH GDHTRPVDLPTSQFTILL
3166	11217	A	4116	1174	1354	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPLRPAGLFKHSPGLYSQ PILT
3167	11218	A	4117	2251	2373	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3168	11219	A	4118	1027	1193	FFFFFFFFFGLVETGFHRVSQDSL DLLTS *SSRLGLPKCWDYRHEPPRAEEGI
3169	11220	A	4119	983	1386	QEVRYRKVETLRCLLFSSCLVPVCAASP VSRPGCRFLRSSLHWPTGRLVFRQGET FLVPEKTVLRGVASAPQAAGRTVPVG RPRDARLRADARS*SC*RAARPRRGASG AVGARGCPRPGFPFLRSGGIFV
3170	11221	A	412	118	337	IHQEKPPNIFSVKKRHYD*PGQYGKTL LKIQLAGYSGTCLAKSQLLRRVGREVIQL ALKIRAPIWKIECL

3171	11222	A	4120	6133	7646	YMLFLFLSTKQWTVIQNRQDGSVDGFR KWDPYKQGFNGVATNTDGKNYCGLPG NEQACKIKSFYKWDFF*LKNHCWKPV LGS*EEFPDKNVEAKDKGRKAVFSFPKF YFW*EILFCFSFRÆYWLGNDKISQLTRM GPTELLIEMEDWKGDKVKAHYGGFTVQ NEANKYQISVNMKYRGTAGNALMDGAS\N HLMGÆNRDHDPPFHNGHGSFQPPYD\RD\N NDGWYVWHSLLLL*KSH*YHYSES LTIF LIATTSWALTVSHCPKLFMHHSKAFQL* GRHSYSHFTDEI*RDYVICPM SHNYPEIK LEFEHSYFLNNEHLDKYL YLYLKCV*KL SFSFPGFSDTKGCKSYSSIK*QTQSLDG LPQRPSYLSFLL*GTGGLWCISVTL CIAP KGKTTVHTSVAVFYG*SAKRNLT TVVLF LITPNTFSFRLTSDPRKQCSKEDGGGWW YNRCHAANPNGRYYWGGQYTWDMAK HGTDDGVVWMNWKGSWYSMRKMSM KIRPFFPQQ
3172	11223	A	4121	333	430	GRGDKPYSPGDSWFVQD*ILVQL*ICPQ EPS
3173	11224	A	4122	2	1679	
3174	11225	A	4123	42	1465	GRWPPRGRENALSKTL\VDMDMADYS AALDPAYTTLEFENVQVLTMGNDTSPSE GTNLNAPNSLGV SALCAICGDRATGKHY GASSCDGCKGFFRRSVRKNHMYSCRFSR QCVVDKDKRNQCRYCRLKKCFRAGMK KEAVQNERDRISTRSSYEDSSLPSINAL LQAEVLSRQITSPVSGINGDIRAKKIASIA DVCESMKEQLLVLEWAKYIPAFCELPL DDQVALLRAHAGEHLLLGATKRSMVFK DVLLLGNDYIVPRHCPELAEMSRVSIRIL DELVLPPFQELQIDNEYAYLKAIIFFDPD AKGLSDPGKIKRLRSQVQVSLEDYINDR QYDSRGRFGELLLLLPTLQ SITWQMIEQI QFIKLFMAKIDNLLQEMLLGGSPSDAP HAHHPLPHPLMQEHMG TNVIVANTMPT HLSNGQMSTPETPQSPPGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEVI
3175	11226	A	4124	3	1840	
3176	11227	A	4125	6233	6874	VLIGCIPQVPPSISYSPLFWFSALGNVAEI FFCLCLGNHNSCWRTL VVEVPESLCPHC *RLLV*HKS GDIWVLT PQMLQLDPAALP CPPSSIVDAKGLSDPGKIKRLRSQVQVSL EDYINDRQYDSRGRFGELLLLLPTLQ SIT WQMIEQIQFIKLFMAKIDNLLQEMLLG GPCQAQEGRGWSGDSGDRPHTVSSPLS SLASPLCRFGQVA
3177	11228	A	4126	1	1481	GFGVGAQGRAGRRVEAGRMRLSKTL\N VDMDMADYSAALDPAYTTLEFENVQVL TMGNDTSPSEGNTNLNAPNSLGV SALCAI CGDRATGKHYGASSCDGCKGFFRRSVR KNHMYSCRFSRQCVVDKDKRNQCRYC RLKKCFRAGMKKEAVQNERDRISTRSS YEDSSLPSINALLQAEVLSRQITSPVSGIN GDIRAKKIASIADVCEMKEQLLVLEW AKYIPAFCELPLDDQVALLRAHAGEHLL LGATKRSMVFKDVLLLGNDYIVPRHCPE LAEMSRVSIRILDELVLPPFQELQIDNEY AYLKAIIFFDPDAKGLSDPGKIKRLRSQV QVSLEDYINDRQYDSRGRFGELLLLLPTL QSITWQMIEQIQFIKLFMAKIDNLLQEM LLGGSPSDAPHAHHPLPHPLMQEHMG T NVIVANTMPTHL SNGQMCEWPRRGQA ATPETPQSPPGSGSESYKLLPGAVATI VKPLSAIPQPTITKQEVI
3178	11229	A	4127	602	799	ENPKQQENLWSQYFTLISTI*KKKSWLCI VAHACDSSTLGD*GGHIA*AQEFETSVG NIVKPPSLY

3179	11230	A	4128	646	1905	
3180	11231	A	4129	6717	7569	
3181	11232	A	413	160	437	KRDITTS LGQY GQNP SLLKIQILAGYSG TCLKSQLARRLRHQNRNLN LGGRGVGSE QRSCHLH SWGGHSETVSKKKKKRERQQ WRQIGTCMP
3182	11233	A	4130	2	93	DFTMSHHYHSAHGT LVLAPRALGNPLSL YPSNYTFPFQHSPSDPCTQSYSLPPEYAT HGSSCFD TTDGGLNASRALAGSCAPVSG SLPCCPTLGIPSPPLPHMHKSLPTYPTPTI SMKPP*PCPGSQGPWQSAFTLPI
3183	11234	A	4131	743	955	ESDFTFYFTHNSCLFCYNKIYINIIYKLSL NCNYGNYFLYIVAHTQTYIYI*NIFCFF CHLLTFC LGF
3184	11235	A	4132	49	313	PLRIWPC*ALFLKLSLGFSLF*FYSSLFLL SPPLC*SLPRVQYIYMYLYICIN*YTYI QVCICNGYMYSCSWCSNVWYGYTENM RT
3185	11236	A	4134	508	780	VSFSSFPSPFPHLSLFFFSLSFSFPSPSLFPSS FFTFFGNHLL*ISCNPNLMYQWGIFKYK YYQCIFWLLSDF*LKYNENDMSVAFGLR TSL
3186	11237	A	4135	34	329	DRLKRKNKQSLSYLWEYNKKS NICVTQ SLEREEDDRAEKVVE*IMASNFPYLSRD VNLKIQDS*RILNWIKLKKSISKYIIDLLE TKDIIRNLESSQR
3187	11238	A	4136	582	869	MCQRVQTPKSPSNPYVHSNICTQLFIAPL SIIAKRWKQPKCPSAEE*INEM*YIHSME YDSAIKRNEVLHVTTWKNFENIRLMKD ASHKGLYVA
3188	11239	A	4137	285	346	AVLFYVFHPIYLLVMTLLLYFLP*LPNQ RFSSLSHKT TAWPSTTVTLF
3189	11240	A	4138	97	298	DNLTLLPRLECGGMIMAHCSNLTFSSD PAASAS*VAGTTGT*HHA WIFVLCNWL RNRGVT VKRS
3190	11241	A	4139	147	502	IFHSKMPISEWKL V*TLWQFFKELKIELP FDPAJPLLGI*PKLAVVAPQHS
3191	11242	A	414	2	150	WLPSLLEPGLHPSNHVQGPVAGIDL GTT YSCVP IGNRTTPSYVALRPG
3192	11243	A	4140	435	660	NLNQHEKLSMLE*ILKSYPKILDNINDHE VSHCSKGNNFKNRSKEWWCGTQDSWR LGNLKVGE EEFNDLTRNTL
3193	11244	A	4141	293	563	NVWPSSSVRGRNE*GREGGRRRTQQA GLGPAPSDLWWLWLSWCLQKNMSQGG ENLPAGPGSCCGREAGAGTSLEDAPF FEAQLQLH
3194	11245	A	4142	1329	1563	WPRNQPTRRPWLKDKLPGVPGGLTGPN PCGQGP PGPPLRPSALWSSHSGPPNG EPLPRGE*YLHPSPRRTSYL
3195	11246	A	4143	304	589	RTWWTAASYFRSVGGSASNRPFSGPY EFQLPRGHSRKGTTRSRAREPSTLWSTP AAP*RTWWTAASYFRSVGGSASNRPFSI PGPYEFQLPRGHSRKGTTEEQSGAIYT VEYACSAVKNLVDSSVYFRSVEGLLKQ AISIRDHMNASAQGHR
3196	11247	A	4144	131	690	VSPA VTTSSLSWARSDLAAEGHARCPL CSGWAQHLSNEEADALSPHTRPIPTTCI* SRTSSLRASTSWPTSHWPCTGCRSMCV RSLPELAQHKADNAALGRSRAREPSTLW STPAAP*RTWWTAASTSAAWRVCSNRP SASGTILNASCPGPQVAPGDRPPPLPFP SLQGPSLSCAGEPLLLAY
3197	11248	C	4145	332	421	MEEKIFSQPGMVAPTCNPSTLGGQGRWI T*
3198	11249	A	4146	685	929	KVGGAKPSLGYLRLGLRLPVFCLHIS*A GDFPRGV*LLPRRGSGVVAHTCNPSTLG GQGRQIT*GQEFKTPVNMV KPHLY

3199	11250	C	4147	710	892	MCVCAHTCPQTSIYIHVFTHGDCIQVT AQKCLHMCFFHIHMSTHACVDYICIIYH VKLI*
3200	11251	A	4148	98	317	
3201	11252	A	4149	656	1037	FVQVQAHKLACKHVQGAYFVFKEQQPE GNVFRQCQGVSTS*EHGASSEFWHGPAGA GVTTSFSSPFGGDRHKFEVSGRRLPTEG LPSNSSFESFPSSIPWPFLFPQVQLSTIWG LKFQFFGDLKILP
3202	11253	A	415	1	1786	MCLLVITYSSRHVYNNLTTEEQKGRVAF SNFLAGDASLQIEPLKPSDEGRYTCKVK NSGRYVWVSHVILKVLVRPSKPKCELEGE LTEGSDLTQCESSSGTEPIVYYWQRIRE KEGEDERLPPKSRIDYNHPGRVLLQNL MSYSGLYQCTAGNEAGKESCVVRVTVQ STMFQGTLLQGLDGTYS\CVGVFQQR KSPRLIANDQGNR\TTPSYVAFTGH*TG WIGDAAKNQ\VAMNP\TNTVFNAKRS LDGRF*MNAVCPVLIMKHVALYWVGE MMLGRPQGP*DYKGEDQKAFYPEEGC LLWVPDKD*KEICRSPNLGEELVTNAV TVPAYFND\SQRQATKDAGTIAGLNVLR IINEPTAAAIAYGLDKKVGAEARNVLI GGGTFDVSILTIEDGIFEVKSTAGDTHLG GEDFDNRMVNHFAEFKRKHKKDISENK RAVRLRTACERAKRTLSSSTQASIEIDS LYEGIDFYTSITRARFEELNADLFRGTLD PVEKALRDAKLKDSQIHDIVLVGGSTRIP KIQKLLQDFFNGKELNKSINPDEAVAYG AEMRQDKKELLDDPIAEDFLEEVAFDKK RMGFGGF
3203	11254	A	4150	1365	1503	LKTLQRAGCSAHACNPSTLGGQGRWII* AQEFNTSLGNVAKPCLY
3204	11255	A	4151	397	682	YSKSCCHKAYRMKCQLNVGLSCKCCECT EWRDPCELEGQESLWGQVQLAHACNPN TLGGQQRGRIA*GQKFKNSLNNIARPHLF KKRKKISLMRWLK
3205	11256	A	4152	477	684	LYLCSALKKNQ*EPGMVTHAWNPNSTLG GKGRRTA*AQEFQTSLSNVGRACLYKIY IFKISQAWWHAFVI
3206	11257	A	4153	108	419	SHTLGGQHGRIMRSGVRDQPGQHGETPS LLKIQKKKKLPGRAGRHL*SQLRLRL ENRLNLGGGGGSETEIEPLPPQPG*TQ*R LPSQKQKNLETVSKKKS
3207	11258	A	4154	175	190	DKVRVSQVRLTSRHLITLR*IRKGRGKK RGCRERNRENRGK*KYV
3208	11259	A	4156	20	430	RPQTYTMVHLTPEEKCAVTALWGKANV DEVGGEALGRLLVVYPWTHRVEFTFGD VSTPDVAVMGIPNGNADGMNVLWASIDG LAHLDNLRGTATLTHED*D*LHVDPEIL MLLGNVLICVLAHHCVEFSPSWQAA
3209	11260	A	4157	31	492	QRILQSRPFEGRVKQGVTWLLQLVGLVS ESHIGPELHLPCEECHLLVSFGVNSPE DSSPLLTEWLWTSHLPFLHCLFGASGR GLQTVPPFVSTALQNVCFPQKGKAPFL LSCATGGCSAGLRVYKLRSAFSCD*AGR TRGSSGESAPML
3210	11261	A	4158	165	433	GSGQADHPCVGVWRQNSVNPRQVFLQAT G*LISASSGSINTNMAQGTAVVCFGPVYP PKAKGRARSQVTPCLTLPKGRCLKILC YLFKL
3211	11262	A	4159	132	257	
3212	11263	A	416	1	154	PQRRVARRKRAVLPTKA*PENTPSTFTS ASMEWASRSVHLGHSKRFGNLP

3213	11264	A	4160	2	111	QLLKDSARSTLVLYPCWARVVSQKSGCCP LKVLSQRPGKLLGGLWVEAWECPGA RCLCHPGPLCPASGTFVPGTEPHS*LLL RNELPSPLF*LLGQSEPEKWMLPPQGAIS ETR
3214	11265	A	4161	3	116	GWRAPTSQPGGPAQVPCSSF*KILPGQH WSSTPAGPE
3215	11266	A	4162	273	793	DSLLLIQVDTMPFTLHLRSRLPSAIRSLIL QKKPDIRNTFSMAGGAPTSQPGGPAQVP CSSF*KILPGQHWSSSTPAGPE*ARKVDAA PSRCYL RDQPKGPFKVP GTEPHS*LLRN ELPSPLF*LLGQSEPEKWMLPPQGAIS SLRDL SKCLAQNLTHDCCSGTSCPPHCS DSFPYHLAPVLAEIFEIMEKVPWRNPT GSAICPLHRPSQKPACTGLRRK
3216	11267	A	4164	212	494	FSEAQFLANVAIKAILSEEISEGKGDRRM LADHTLILTERGSEGPCC*PQEV RPTVLS EWGCKCAQANCECSP*PWP HKSRAGHF PPLSLGKLL
3217	11268	A	4165	281	587	EIFFNPKREYLSLHWMDEHQCPNFIHVV GQGGLGTIWQDVLQEYNQKNFLYNISLK DKFLGWMW*LTPVIPALWEAEVGGSL PRSSKTS LGN MARSHPYKK
3218	11269	A	4166	113	564	IDRLDSAKIFGHL SIFDRCEKRRPDLVSG TGTCSGSFRRTVFPAPVGR TDSP IPRTH GPNFVP*TLVEKKPPAAW*TPACDLTSK PSIGPTILVPTPKVEPGSLPTA*DPLEPIQ SPEKK*SIVPQTGSFQTASQLTEAVPELV LVAH
3219	11270	A	4167	1173	1432	PIPVDLNTLMFCHYFIYVYHPCLEMFSFT CGLLSL*AQRPSDGYFFFAFIYILFCTMF FLNVQILYSSEKNTVFVDNHSYYTVLR
3220	11271	A	4168	75	270	QYISVVDTYLLMPRLATAILWITN*VFE KRV AHFGYHWSLMVRDRRISGVDRYYV SKGLENID
3221	11272	A	4169	271	825	SPPACLVDGQALPSGGGLYPNSLRQGS VGQAGRGCLSWFCMVHFANPEDQFLGF QASGFLHVLKPPQGAATPSGSSQGGPA MFSGLPSEPTTPATPQNPIHSSTKLLCE AAAPTRGKPC TPSSIFQPWHRTDGKGRA GFSASGTRGRPHLTPSPVHQTG*EASQK GPALMPPGFQPPKGK
3222	11273	A	417	1	893	PTRPCMAGEKVEKPD TKEKKPEAKKIV DAGGKVKKGNL KAKKPKGKPHCSR N PVLLRGIGRYSRSAMYSRKAMYKIRKYS AAKSKVEKKKKEKVLATVTKPVGGDKN GGTRVVKL RKM P RYPTEDVPRKLLSH GKKVPFSQHVRKLRASIY/TPGTILILTGR HRGKR VVFLKQLASGLLLVTGPLVLNR\ VPLRRTHQKFVIA TFTKIDISNVKIPKHL TDAYFKKKKLRKPRHQEGEIFDTEKEY EITEQRKIDQKAVDSQILPKIKAIPQLQGY LRSVFALTNGIYPHKLVF
3223	11274	A	4170	1	211	THPPPAEAPGAEGPQ*G*AKHPSAP*APL L/PRRRARASSRPVTSVTPSSGGSFRPGTP AQGVITAVTVSA
3224	11275	A	4171	1	424	NSRVDDFVRPGSSAAGRQMRGGGQOV PNPRPGFRGQQP*RNGHPVPASP WALAG DAGGMLWNMMRSWPVSGRPTLNPFNK QSGPRQHEQGPGEVPDVTPEEALPELFP GEPEFRCPERVMDLGLSEDHFSRPVGLFP GL
3225	11276	A	4172	1091	1421	RGIITEINKHPDHIHSPTHTCRHTFTNMH AHTHTPTYMHHTHTGMFW*K*N*GSLNS RSGFK
3226	11277	A	4173	1407	1607	LSDLNGNFH SKVMTRVNIKGNLYLKNM RPGAVAHACNCSTLGGQGGQTA*AQEL ETSLGNVVRLCLY

3227	11278	A	4174	1	294	FSRPDHLNGHKKQVHTSERPHKCQVWV GSSSGLPPLPLEPLPSDLPSWDFAPALWR/ CVPFGS*HRLFPFSKKIIPSP*KPGPSTLQQ HSDLDPAFISG
3228	11279	A	4175	560	824	FWKVGCLPWELAHAPAYLLPFPLGITSP*A LGFPRTGGPWPTFPFPLPRVSRPSQRRLG TIPT*SQPHACPLPLPHSGSRSCFHFVLV K
3229	11280	A	4176	3	325	FFHVSRNLFYFFRYIKHCYFIFSLIILVSGS RVNLLLLGLIVYCFVLVFMNF*TWISHF LSFFFFCRDGVSHCVAQAALFTPLGLKC WDSRREPPRPAEMFLFLGT
3230	11281	A	4177	292	543	SPGTYAPKRIGKGAGNWKPGVPPFRSSM WKETQPLSSRVSKVLSVSPSPPIPVVP LLPALPK*GHSPLVSPPLHRSSQGESP
3231	11282	A	4178	3	367	IQMDCVLLFPAQAQISAPPLIMKTTPIS WGLEHICPSYPWNHSPSLYHRYAMGFG MFFQSGPCSSWAWKLSRTLPSLVVALSS AWPLTRG*RLDLGPPAPSSYVGFSSQASP SPSPAAQC
3232	11283	A	4179	67	283	MCAYIKIDKGNRMCTNMIYLVVEGIGVT FSLTLMYKYTKLIIMLSYVKRLTLISCAF YVNLWINLYYAMFI*MCAYIKIDKGNRM YCTNMIYLVVEGIGVTFSLTLMYKYTKLII MLSYVKRLTLISCAFVNLWINLYYAMF IK
3233	11284	A	418	934	1272	WCILGLCTSLMSRTALFPSRHTFFA/RSH SAASKL/EKKKKEKVLATVTKPVGGDN GGTRVVKLKRMPTRYPTEDVPRKLLSH GKKPFSQHVRKLRPSTPGTILILTGHRH RG
3234	11285	A	4180	268	467	GNRRALLRLPALGPPRSSP/DGFTPGTTA RPSILKRCMPMTPLPPDPSAAAPGTSELW TSPDSSSSSR
3235	11286	A	4181	880	1200	GNPTWLFLPSYQNGSPAIEIQS*GFTPGT TARPSILKRSPMTPLPPDPSAAAPGTSEL WTSPD*QQQQDGKEAPQSGRHDSSSA LRPAAPEALPVSRRPPPLAA
3236	11287	A	4182	343	720	SCLLTVISFHQIKKYIYVHTQLTKAGQKE FICRLSLALTNLPPAAPPLAMAPCVSPAS RQDITVLG/GPQPPSGPAPTAPQQA*AR WQLGPPSPGPSILPPREGRPSPAGAGWG GDLAGPSQVHF
3237	11288	A	4183	789	1015	MSLMVPLMPYGP*YLPPSPPAYPIWEL PLPQRDSADVSRRLGGRGVAVERDSPTE KSNISKFLYQVACAVTHL
3238	11289	A	4184	319	471	IMWYIHIMEYI*PQKGRKILTHATI*MKL EDIMLSEISQSQKNKYCHISVI
3239	11290	A	4185	68	422	GSPSRCPAFLSSPVAARPLTHFPTGAGL LRASGEPAQLTGSVSQ*PPRAPSSGLPL KHSPHQCSAQHSGKEGLGGGTNTTREN* PSPRPLCMGAQAGRMLLLPAAVRNHVL ESGSV
3240	11291	A	4186	135	500	PPWVTPRWERGWGVIIRDGDRVRSQRQ QGLPPKLQSGWEVESWLGRPRVFPFGS VPGTPRSPAAGGSQPRCPDARPAHKGPR APGARCGPPAPPGLPAY*PGRPR/PRP ARR*TPLTAA



3241	11292	A	4187	365	1452	IGPEVPEGCHFRSGESRGDATALAYRVESE HHLGLEGCAGNATLVQGVGRKIPCLGLR GAILGPQIAVRLGSRIMARPAAPGLSQA RSLARRGCPAAGGSQPRCPDARPAHKGP RAPGARCGPPAPPPGLPPAY*PGRPRRG LHGGRHRSRRPPRRGPAAPGSPPAEVAG ASARGRAPGPPCPRPPPIPAAPRVEAG PSARPSVPAPAPAPSRSPRLQPPAAPWG GRASGPKDPGTAPPPTRTQSARNPSRSP PPAPSPASAGASADDPGTPWHRTGPPC QSQTRKHTGP*AARDQQRQSRKDDSPG LCHCLRPAGPKCLKGLWFAFSVHPPWSS TPWLQSGRVNLPLAQDIFLL
3242	11293	A	4188	200	390	GPHAKSAFFPP*LSEQLGQG*QPGQTPVG RLLALSVAFFPQGVGFPKAGGGTGEAFGG LACPLP
3243	11294	A	4189	805	1030	LVLCLPHSQLTKGTSHTCLTLQGGL*KL TRLALFRLGAVAHACNPSTLGGPRGPIT* CQEFKTRLANMVKPLLY
3244	11295	A	419	1	2607	MAFAWWPCLILALLSSLAASGFPRSPFR LLGVANGIEVYSTKINSKVTSRFAHNVV TMRAVNRAADTAKEVSFDVLPKTAFTIN FTLTIDGVTPGNVKEKEVAKKQYEKA VSQGKTAGLVKASGRKLEKFTVSVNVA AGSKVTFELTYEELLKRHKGYEMYLK VQPKQLVKHFEIEVDIFEPQGISMLDAEA SFTINDLLGSALTCSFSGKKGHVSFKPSL DQQRSCPTCTDSLNGDFTITYDVNRESP GNVQIVNGYFVHFFAPQGLPVVPKNVAF VIDISGSMAGRKLEQTKAALLRILEDMQE EDYLNFI LFSGDVSTWKEHLVQATPENL QEARTFVKSMEDKGMTNINDGLLRGIS MLNKAREEHRIPERSTSIVIMLTDGDANV GESRPEKIQENVRNAIGGKFPLYNLGFG NNLNYNFLENMALENHGFARRIYEDSD ADLQLQGFYEEVANPLLTGVEMEYPEN AILDLTQNTYQHFDYDGSEIVVAGRLVDE DMNSFKADVKGHGATNDLTFTEEVDK EMEKALQERDYIFGNIERLWAYLTIEQ LLEKRKNAHGEEKENLTARALDSLKY HFVTPLTSMVVTKPEDNEDERAIADKPG EASYQPPQNPYYYVDGDPHFIIQPEKDD ALCFNIDEAPGTVLRLIQDAVTGLTVNG QITGDKRGSPDSKTRKTYFGKLGIANAQ MDFQVEVTTEKITCGTGRASTFSWLDT VTVTQDGLSMMINRKNMVVSFGDGVTF VVVLHQVWKKHPVHRDFLGFYVVDSD RMSAQTHGLLGQFFQPFDFKVS DIRPGS DPTKPDATLVVKNHQLIVTRGSQKDYRK DASIGTKVVCWFVHNNGEGLIDGVHTD YIVPNLF
3245	11296	A	4190	90	417	LALEILSYFYLLYLPVWHFGFNSVVALSL KILNIIYLFSSFKSLRNFSALVSIFVFCF SSFSACFSLNSKDFF*NPDIKPKPHVKNS RIYKTQYSKDHPQRENQFR
3246	11297	A	4191	2	672	GRVGFTPGSWEAFMVKNIVPKLGMCLG ELVINPHQQHMDAFYWVIDWEGMISVSS LVGLLEKHFFPKWLQVLCWSLSNSPNEY EITKWYLGWKSMSDQVLAHPSVKDKL NEALDVMNRAVGSYVGAAYMQPGARE NIAYLTHTERRKDFQYDAMHERRAGPQI GLLRSLGKNLKICAKKEPLEIYLWANLK EYYLAKTGQGPFFFLTRAPEGLITAWA LWG

3247	11298	A	4192	1642	2785	RMTSSCPMADRTCPLPFSHRLIWEVWMP FVRNIVTQWQPRNCDPMVDFLDSWVHII PVWILDNILDQLIFPKLQKEVENWNPLTD TVPIHWSWIHPWLPLMQARLEPLYSPIRSK LSSALQKWHPSDSSAKLILQPWKDVFTP GSWEAFMVKNIVPKLGMCLGELVINPH QQHMDAFYWVIDWEGMISVSSLVGLLE KHFFPKWLQVLCWSLSNSPNYEEI/TPK WYLGWKSMSFSDQVLAHSIWSRDKFNE ALDIMNRAVSSTVGAYKQPGARENIAYL THTERRKDFQYEAMQERRRPENMAQRG IGVAASSVPMNFKDLIETKAEHNIVFM PVIGKRHEGKQLYTFGRIVYIDRGVVVFV QGEKTWVPTSLQSLIDMAK
3248	11299	A	4193	264	638	PSRTRIKTKQMATSEILPSFVATMDASNF SFWQVLCWSLSNSPNYEEITKWYLGWK SMFSDQVLAHPSVKDKFNEALDIMNRA VSSNVGK*GFFFWMSWPQVSDFTHVND TESEFSGSCRQPKP
3249	11300	A	4194	2413	2707	EMHVY/WTERSGSRL*SEHFGPRWVDH */RQEFETQPGQYGDTPSLHPLLSTSCPS FLSLFSLVTFFFSSFLSLFLIYLLSRHDF LACDCFPFLD
3250	11301	A	4195	835	1050	GSR*HNLQIIGRPRRADHLRSGV*DQPGQ HGETPVSTRNTRISQAWWWTPVIPATQE AEAGESLEPGRWRLW
3251	11302	A	4196	2	112	
3252	11303	A	4197	36	172	
3253	11304	C	4198	1	1482	MVTHACNPTTIGKLEPSYVIRKFLDAQRI HNLTAYLQTLHRQSLANADHTLLNC YTKLKDSSKLEEFIKKSESEVHFDVETA IKVLRQAGYYSALYLAENHAHHEWYL KIQLEDIKNYQEALRYIGKLPFEQAESNM KRYGKILMHHIPEQTTQLLKGLCTDYRP SLEGRSDREAPGCRANSEEFIPFANNPRE LKAFLEHMSEVQPDSPQGIYDTLLELRL QNWAEKDPQVKEKLHAEAISLLKSGRF CDVFDKALVLCQMHDQDGVLYLYEQG KLFQQIMHYHMQHEQYRQVISVCERHG EQDPSLWEQALSYPARKEEDCKEYVAA VLKHENKNLMPPLLVVQTLAHNSTATL SVIRDYLQKLQKQSQQIAQDELVRVRY REETTRIRQEIQELKARVKAMPPGKVPR KENLWLQCEWGSCSFVCSTMEKFFEHV TQHLQQLHSGSGEEEEEEEDDPLENSV NKDIRNKSAILPSRSNC*
3254	11305	A	4199	913	1299	ELGIVGKHAPTGGAGYHFLGMAAEVL SKFTAVLEGAGTAFPATQHHRVVLADCF VFTETDCVLPHADKTTQDCRRNSVPGAT HSAPTDNRKWSGISGMTFRLWKSRLMQG PRSAWLC*ACSPHCFSLVW
3255	11306	A	42	1	818	MAGAEGAAGRQSELEPVVSLVDVLEED EELNEACAVLGGSDSEKCSYSQDKAK VNSGNKYNDNFFGLYCICKRPYPDEDE VRELEVKPGVTKISTEDDGLVRNIDGIGD QEVIPENGEHQDSTLKEDVPEQGKDDV REVKVEQNSEPCAGSSSES DLQTVFKNE SLNAESKSGCKLQELKAKQLIKKDTATY WPLNWRSKLCTCQDCMKMYGDLVLF LTDEYDTVLAYENKGKIAQATDRSDPL MDTLSSMNRVQQVELIC/GIQ*FED
3256	11307	A	420	1	1842	
3257	11308	A	4200	1	587	GAEETWEPTDGSASAAQDGVQWCDLGS LQPLPPGLKPSSHLNLPSSGTAG*RPCAL PGKVPRKENLWLQCEWGSCSFVCSTME KFFEHV TQHLQQLHSGSGEEEEEEEDD PLEEEFSLWAGMWLLFSGQFCLTSSAM SYFHCYHTKLKQWGLQALQSADLGPC IDGSRAGTSSLSLTTSCVWGTTOEUB

						IPGISRAGTSSLSLTSCVWGTGTEILR
3258	11309	A	4201	262	409	RSGGRNISSRKSITAHRSISAPGSISAQGSIPALKSILAHGSIPSQG*DTPLGWDAPMG*DALEGWDAPLG*DASRG*DTPMGRDALSG*YVPSPTPSSWANALPCHFLPQMFLTNVMPTNPISAEINCGRGAGWQEWMCPLQAPVPNHIHSCSPTASRGLRGQLSSQLPETAKEAW
3259	11310	A	4202	729	922	WFETIEATQLYFNELPDTFHCVLCFLLCHFYINVKAFCSCSCC*NTCSLIFRPTVYYALML
3260	11311	B	4203	306	392	LTSGTYPKSGKAVEEAQPNSPAEDVRDR*
3261	11312	A	4204	965	1298	GNLVTAFLQVLCIPDESLYRSICFLLHHQKLHISVPQSPRWGWTSLGLAGTPRCSPLPTPPRLLPQPSRPGATGKIPRDRRTPVRPLGHKEPRGT*GKSWPAVAQPPG
3262	11313	A	4205	1	324	
3263	11314	A	4206	310	513	
3264	11315	A	4207	65	191	QEISIMVGFKATDVPPTATVKFLGAGTACIADLITFPLDTAKVRLQVRG*SLGVLMVSTLFPQHRPLKGGQCLEHRDDWRWEGQHAYPCSYPLALQIQGESQGPVRATASQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEREYGARV*AGNQHHGWVQGHRCAPYCHCEVSWGWHSCHLHRRSHLSSGYC
3265	11316	A	4208	12	237	NFKYILFKILHLGEKIYNVYTCFNNLFHCTTYILYNSTINQPKITS*HLNKNLPCKKHSMGHYKVVFKIFFK
3266	11317	A	4209	361	444	QRLKNNCVITCS*QRPRVFSSSPQGLAACHYRGLRSPQSRGRCLSHFSCQGVHPRSCQRGSAWSPRTTGQRGPTVGTGRTKRRLNTAYLLGAASADILRPIPSTR
3267	11318	A	421	3	377	
3268	11319	A	4210	89	198	APP*THKWKIPHPTSCDRSLSTCWHTTV DSTSLREK
3269	11320	A	4211	119	698	PTLMLHYIPWGRGRLGGWGQCQSHSARCAGTGTCLPMGTLMHMEASRQVWGGCILPLFPYFLPPQLPS*LGPSNIWVAKDGWLRDLDPP*YEWTLGVNWPSPGILAYWTVSAPSLGFSGPITDAALPCPYNLGGSSPHPRRGSRFQKTGLSLTEGNLPFPPIPTPYLPHFLHIRVWPANVEQMCRK
3270	11321	A	4212	728	916	FFFP*SV*KVSAQG*SLWPGVAAHIYHFSILGGQGGRIT*GQEFKTSIGNIVRPHLYKSGG
3271	11322	A	4216	162	528	LLPYGLDRGPYGGVWCGLPYP/SGTVSTGPPORTASPLPKQSS/GPQPPEFAACTGTDAI*DARDAGDAGEGGSS/GAEPASSPAGAAGGGCGLAARSQVPSEIRSGWLKGSPLQLASSGALVICP
3272	11323	A	4217	160	835	GGCGRRTVLVKDYQFFAEGRLIQFRWENAAARFSALAPDMQRQNFRTTPPYGPGGGGWGTGSNFRGTGGGGPRTALPSRRVRGVTRRRRTGPRS*ARNGSKLSAKRRQLSRGARFGSPSPGGYPGSYSRSPAGSQQQFGLLPRAAADPPRVLQGLHHLDQGVLEKKECLMSWKINFAFKCLKIPWGWPRQTQICSGYKPNNTAILKHSQAKKEDTFC

3273	11324	A	4219	198	392	
3274	11325	A	422	1	621	MTKRCLDHRGEWLPAGGGGGHTEGTRC LHHAPVTWVGIEVDIFEPQGISMLDAEAS FITNDLLGSALTKSFSGKKPVWLRGRHT PKGNDSEVLAGLSPCPIPLAGLTVNGQI TGDKRGPSKTRKTYFGKLGIANAQM DFQVEVTTEKITLGTG\RASTFSWLDTVT VTQDG*APLQGLQGGLQGEGDHSGPQP NPGALSEPELV
3275	11326	A	4220	318	718	YHHLQGRDIPGNLRVEGSVPHPAVRPRF SASCSQPPFPPLSPHLRARARPRWERQK FTPSLDGSFWGETPAGGCGSHHPWQGP RALFRRSQ*PRR*AHMEGRVGRRSPLL HPPWEKTPS*LSGLTDRKQA
3276	11327	A	4221	1	563	ETFSSHFERPYLQFKAEPPLTSRGFVEKS TALHRISAEHPESMMSEVHERALQQHPQ AQGGLETREKMHADNNFTKTQDRLHA SSDAFSGLRFGSGTSRGYQRQMVPREEI KSTSASKSSVVSLADTAPNFSRLLSNVTV MEGSPVTLEVEVTGFPEPTLTWWVAYN DKP*METNSITEKNHSVSTN
3277	11328	A	4222	366	622	LSTMLHQHLLSVLLKLSQSLYVVYSFFLI QSTLQSGTRVTLKCRLOAGAVAQACN ASTLEG*GGWIARAQEFETNLGNRARPC L
3278	11329	A	4223	43	245	
3279	11330	A	4224	634	1316	GSGPHSPGKWMVDDSRHSRDRVRSGR LTLMVTECLSLQEFNSMDLWDFHKYMR SHKAESSELVRNSHHTCLYQGEGAHHIM RAIRQVRLRLTRLSPEIVELIEPLQVVRYG EGGHYHAHVDSGPVYP*TICSHTKLVAN ESVPFETSCRYMTVLFYLNNTGGGETV FPVADNITYDEMSLIQDDVDLRDTRRHC DKGNLRVKPQQGTSSLLVPTTCLMGKV GWVT
3280	11331	A	4225	506	708	FLMRSEFL*KVFPHP*HS*GFPCVCSLMS CVG*LLGEGFSTFMTFIRFFPWCSPDDS GFEIFPLIS
3281	11332	A	4226	1	1662	MIISIDAEKAFDEIQQCFMLKTLNKLIGD GTYLKJIRAIYDKPTANIILNGQKLEAFPL KISTRQGCPLSPLLFNIVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMIVYPENPI VAAQNLKLISNFSKVSQYKINVQKSQAF LYNNRQTESQIMSELPFTIASKRTKYLGI QLTRDVKDLFKENYKPLLSEIKQDTNKW KNIPCSWVGRINIMKMAILPKGASFTGY CIPKPEVILKLETGKEPWILEEKFRSQSHL EEPSEYNNNGNSFWLNEDLIWHQKIKN WEQPFYNECGKAFPENSLFLVHKRAYT GQKTCKYTEHGKTCYMSFFITHQQTHPR ENHYECNECGESIFEESILFEHQNVYPFS QNLNPTLIQRTHSISNIEYNECGTFFS*D RVSLCLPG*STVARSQLSAASISQVKRSS H/CLCLLSTSDYRCMPCLANLCIFCRDN CAMLPRLVNS*AQNLKLISNFSKVSQY KINVQKSQAFLYNNRQTESQIMSELPFTI ASKRTKYLGIQLTRDVKDLFKENYKPLL SEIKQDTNKWKNIPCSWVGRINIMKMAI LPKGASFTGYCIPKPEVILKLETGKEPWI LEEKFRSQSHLEEPSEYNNNGNSFWLNE DLIWHQKIKNWEQPFYNECGKAFPENS LFLVHKRAYTGQKTCKYTEHGKTCYMS FFITHQQTHPRENHYECNECGESIFEESIL FEHQNVYPFSQNLNPTLIQRTHSISNIEY NECGTFFSEKLALHLQQRTHPGEKPYEC HECGKTFTQNFTEHLRRHTGEKPFGCNE CGKTFHQKLALIVHQRTHIRQKPYGCNE CGKSFCVKSKLIAHRTYTGEKPYECNS GGVRPALWDERSCGYVSAGTKRAEGEV

						WKGQGEEMGSIVERLVTLK
3282	11333	C	4227	472	681	MNHKIYVYGHTQQFLYCSYVFKRYEFY SNPTLQGFLCSPHSYFYKLLLTGRNLAI IILNIFAQWYQSL*
3283	11334	A	4228	2	277	RAEPTAGEVWDGAGPMGAELKPWARQ RKVEMDHVGPILLSPPPGRS*SPGPGRGR SRWTMLGPFSPRPQAAVRGPRPGVLGSP REALEPPGARHPRAVTAAPRELQCGGST VRAVAR
3284	11335	A	4229	1	240	ALLGWVFNLYKEITTTTSPFRRRSYILGF VKLYVSEHFHFFFWVLYYFL*MHCEKFY FRRCNAGRRSQIMYIVFLKSLSS
3285	11336	A	423	3	2722	FSDGLCMVALSHLGSALQLGSLCFPRSPF RLLGKRSLPEGVANGHEVYSTKINSKVTS RFAHNVVTMRAVNRADTAKEVSFDVEL PKTAFITNFTLTIDGVTPGNVKEKEVAK KQYEKAVSQGKTAGLVKASGRKLEKFT VSVNVAAGSKVTFELTYEELLKRHKGK YEMYLKVQPKQLVKHFEIEVDIFEPQGIS MLDAEASFITNDLLGSALTKSFSGKKGH VSFKPSLDQQRSCPTCTDSLNGDFTITY DVNRESPGNVQIVNGYFVHFFAPQGLPV VPKNVAFVIDISGSMAGRKLEQTKEALL RILEDMKEDYLNFLFSGDVSTWKEHL VQATPENLQEARTFVKSMEDKGMTNIN DGLLRGISMLNKAREEHRIPESTSIVIM LTDGDANVGESRPEKIQENVRNAIGGKF PLYNLGFGNNLNYNFLENMALENHGFA RRIYEDSDADLQLQGFYEEVANPLLTGV EMEYPENAILDLTQNTYQHFDGSEIVV AGRLVDEDMNSFKADVKGHGATNDLTF TEEVDMEKEMEKALQERDYIFGNIERL WAYLTIEQLLEKRKNAHGEKENLTAR ALDLSLKYHFVTPLTSMVVTKEPNEDE RAIADKPGEDAEATPVSPAMSYLTSYQP PQNPPYYYVDGDPH/FSIIQIPEKDDALCFN IDEAPGTVLRLIQDAVTGLTVNGQITGD KRGSPDSKTRKTYFGKTGASPMQMGF PGWEVTTEKITLLEQARCRAFFSWLDTV TVTQDGHFLASSRRLSMMINRKNMVVS FGDGVTFVVVLHQ/VCWKKHPVPTVDF LGFYVVDSHRMSAQTHGLLGQFFQPFDF

						KVSDIRPGSDPTKPDATLVVKNHQLIVT RGSQKDYRKDASIGTKVVCWFVHNNGE GLIDGVHTDYIVPNLF
3286	11337	A	4230	1508	1686	IFFQPKECLYKNL*GLGAVAHACNPSTL GG*GGWIS*VQEFETSLGNMAKPRLYKK YKN
3287	11338	A	4231	596	729	YFPNKHGILCRVQWLSL*YQPPLWESEV GVLELKSURTAWATW
3288	11339	A	4232	1212	1344	ATCLSLEKIQKLLIQNPGR*ASCDSSLL GCSPDLSSHFTVL
3289	11340	A	4233	2	114	
3290	11341	A	4234	1	326	
3291	11342	A	4235	37	199	
3292	11343	A	4236	3	263	
3293	11344	A	4237	164	298	
3294	11345	A	4238	60	152	
3295	11346	C	4239	512	805	MSSLPLMITDTQQA VSSGLWIGIPNYRVF TPTGTWVRXPHATESLHKFNLRNRTWEM GLQRRVXTXGTNVKALESAQPPWNQ AGRGDNFLLWRKGGD*
3296	11347	A	424	1168	1627	RAGRGEGHKLNSYGGRRARSQGHLLS SALSPFVSAASYQPPQNPYYYVDGDPHFI IQIPEKDDALCFNIDEAPGTGLRLIQDAV TGLTVNGQITGDKRGSPDSKTRKTYFG KLGIANAQMDFQVEVTTEKITCGTG\RA\ STFSWLDTVTVT
3297	11348	A	4240	1	361	EPRMLYTRYVSDPEFVISRVDDFVVLQL FRMSSLPLMITDTQQA VSSGLWIGIQIS LTQPGSTIS*YCSFFKSVIICHLMIT*YTTS SFFRPCGLASQIPESYPAGTWVRAPHAM EKLT
3298	11349	A	4241	545	865	PNNKHPYKSVTILSLCAVLFSLYIFNSGH FYFTSSIQFRHLNPKFNNLFYQTFVLR TK FL*II*QIKAEPLIVEHK*KIYYKKPYLFNT QVLALKLKR*GFLYIIS
3299	11350	C	4242	47	319	MVFHKARTRMKERTDTAMQAESASETN KRAHPALPPVLPXGRWARRGQEAPRP HLLSPQSGGGQAPPWRERGVT RLKLG EGCRGRLAP*

3300	11351	A	4243	211	472	STLGGS LCAQSGCSFEPLPLRGHPAMPV KCAQPLFS/SPCPPCLPRAAREGEQGEHA CWFQMHFLLALPYLCVPSSWSWLYGTP CF
3301	11352	B	4244	1	1023	MCWAPSTRGGSPALHLPLLLPHPLPAR CTGFRAPAVPSSPAGIFGHIAVIGSPFPTA GGNTSDSFSNGCSQDVGSPRLCGCGLLG VGIWLSVSQGNFATFSPSPSLSAANLVI AIGTIVMVTGFLGCLGAIKENKCLLSFFI SPVAELILLILFFVYMDKVNENAKKDLK EGLLYHTENNVLKNAWNIIQAEMRC CGVTDYTDWLPASAGGEHGSRLHGR PRAAGATAPRLCGERAAMKRSWGMASF MTLFQHIHRTGGNHVHLGPKIFASFPGA TDISSGLGGDYICDPKEKKYRKPKREPH LQ*
3302	11353	A	4245	630	841	DTGPCWRERGVTRLKLGEGRGRLAP* HLLPPPKSSSQPCAPLTPTAGWLPEEKAE VCSGCPPCPSYKP
3303	11354	A	4246	29	360	HSLISQREKESERERARESE**RASERE RERGRDKIPTRKGGEEVQFLQTHFFFLIF LTAFFEQYFKERGSYYRYRGKAKKGG RGEKNSRSRNPSSFTGRKKRV
3304	11355	A	4247	253	451	NWSAGAALLSAAPAHTPSPHQARPTGS PPSAALWGSPSPSRSPPHFSPTDL*MRPE RHPSSAPF
3305	11356	A	4248	355	500	ARCGGMHLYSQIFGRLRWEHCLR*KVLS QVWWHAPVFADIWEVEVGALLEARS LR L*CAMLLPVNSHGPTWAMQ
3306	11357	C	4249	175	387	
3307	11358	A	425	87	508	MGCFIREGGEEGNLIKKRFVSEALADV RRKRRQEEWENVRKPEDPEECPEEVYDP RSLYERLQEQKDRKQQLRGTVSNCKN MVRGLDEDETNFLDEVSRQQLIEMHR IEEELIELNEYRIALWNVGISYENYEGRG
3308	11359	A	4250	342	608	AGSGTIGMLRPADERGGQSRGRSAHPI SQAAPCPAFLNRPFTGPS/CGPVS TSLRNT AGFCPE\GPGCPPSLAEASCPLPSCRAGS HWA
3309	11360	A	4251	56	277	TVSVQRHQAVQSPVVVFTEHIPQDAWCS PSCAPGN*PPLCPTNKPCALQQGMKPL ALKKSLGGTVCCGSKRD
3310	11361	A	4252	235	721	DLADCSLQLQSRSSWKKCSTMLQKVLV PPEAATSLSHPTPRPLPHPPALGSPLOPPS NTFGP*CCLSQDAPVFPSPVKLHLVTVPA SSLANESRKGPSRVFSRTPAPSSSSITSIS DSGIQNATVWSGVRLSVSASSFGLLTSPF SASGVSLSVSPLASTL
3311	11362	A	4253	1866	2283	IRILYRSPHLQLPCLTRFLVKKSYSVTGN WMVSLKD*SLRLDCWHGPNLVKLDEV WQNLGTSTKSL*NNFKNILGKINTFKTL FGGGMKLIPCKVSFSIYLMVNLESHDST WHLQANQTPHFDVSPVLVLEFPFKF
3312	11363	A	4254	2	767	ELLFDKSTMRRPFGQKASSLPPIVGSRK KSGNDRHSKSTVGSSDNSSPQLKRKG KKEDVNSEKLTCLKQNVKLKNSQETIPN SDEGIFKAGAERSETRGAAEVQEDDTQ VEVPVDQRP AEIVDEEEDGEKANKDAEQ KEDFSGMNGDL*EEGGREATDAPEQVEE ILDHSEQQARPARVNGGTDEENGEELQQ VNNELQLVLDKERKSQAGSGQDEADV DPQRPPRPEVKITSPREENNQNKDYA AVA

3313	11364	A	4255	79	928	TWQRCNLNPLHIPVLCSLSSSTMWDVLL PLDRGDLHLSCIDSSNWALFRCQSKVVL YHCVEADSKGLRSVLDELTLNKTNLELK MESQTEKLNLYLRNNHEEAGTTQNEFKV SVCQYLSRYGGGGYHYKRQSFHKTSK ELMGRHRLLLTIANRHEIAELRWTLQTL ELELQAQWPLVRMLQQ*EP*ERLTC*R* RENQEPVQVVEEQPRANTKETRKKSSF SQPMSASTKEESQDGRRKGK*LKGRARE GKMLHQKSLGFKEYFEGRGAGPTPSGPT VTQLK
3314	11365	A	4256	235	674	SGKQNNPQATAKAEACTETRSQMGA TSSTFDYLGATSLKSPPHRKVVFFCFTIET SLHSNSL*ILLPLHSISNIQKQTQTSNLNIN LQPATAGPPSQAPPTALSELPGGRSAPEP SHAAPFARVPPSSGSPRPNARWAARA A
3315	11366	A	4257	60	471	CLGSLQPPTRVKQFSYLCLPISFFFLFF FGLFLRFSLCHRF*AV*L*CSLVLFSSCFL CLGFAMVFGSVGL*FSSLECFQALFLQT FLLSFPLFFMNSN*PCIRLTEVVPRLSDAL FIFKNSFSCCADAWADAW
3316	11367	A	4258	392	517	MTLKDVVAHACNPNTSGRGGWIT*GQ FKISLANMAKPRLY
3317	11368	A	4259	446	767	IWYKSTHSSVIFKCEFFLQFLSQLALSPR HECSGAIMAHCSPLLGSDDLPAFLNFS WR*CLHYVAQPGLELLGLK*SIPPWASE SAGITGLSHHAWPKYELLLF
3318	11369	A	426	90	549	QGASQTTTRSETSCGLIAR*TFLGLAFVRIE RIDGNLKMHLHIVEPYVTWGFNLKSVRE LILKRQAKVKNKTIPLTDNTVIEEHLGK FGFICLEDLIHEIAFPKHFQEISWFLRPF HLSVAHHATKNRVGFLKEMGTPGYRGE RINQLIRQLN
3319	11370	A	4260	119	342	ISICIKININIFYACYVYIILCIRIYLSKYILL ENCI*CTILFYVIFYVYIYLHIIYILLRLCPF FIYSWSPV
3320	11371	A	4261	374	471	GKK*KCPTHLSHLYINPGEKSYLFETSGL NF
3321	11372	A	4262	255	496	LYKFQTSVPLT*FIKALYITFYNSR*RG YYSKFKT*S*RPGMVAHACNPSTLGGRG GRIT*SQEFETSLANVAKPHVY
3322	11373	A	4263	231	417	CELPVTRHGAGCVCSSDTVLP*PCPFSPV SQSPSVCLSPLFSDPCEPPYPVLESPLDC SF
3323	11374	A	4264	1204	1398	ASFLAISMVVRVGVFPFYHLFFLRQSLIL SPRLVGVR*CDRG*LQPLPGYK*FSCLG LPSSWDF
3324	11375	A	4265	581	705	LLAECGAHACIPSTLGDQGRQIT*GQEFE TSLANVVKPLY
3325	11376	A	4266	3840	4074	AQEYRGQLRQYSETMSLQKKFKNRSAG CGATCL*SQLLRRLGWEDHLSPGGRGCS EP*SHHCSPA WVTEQDLSPCHP
3326	11377	A	4267	173	421	
3327	11378	A	4268	423	595	SCLSINFHLGQAQWLMPVIPALWEAKVG RSP*VRMVSIS*FRDLPASASQSAFNISH



3328	11379	B	4269	1	1224	MPTVGKAQARRRTRDITLLDITQVLIDQ SPRKDTGLAQQTGVIVPSKGIVKYWRAQ LKGDMMKYASPAFELFYFSVRAQSTDGIV TLLDPTTREDCDISSAPNPEVRTQORQAEV AGVGLLAVKVPDEEGVLGGAPGPQKR SRVCGEPTLQRRSGPLPVARPGSRCPPT SVSSPVPEDEYGRTVVMIRLDNPGISGRT IENNPPELEKQLPGESENSPYLGPPQVLF LLRDPREDVMLLNQTPITAEEKQAVLQ AAEIFRNEQQISYNTSKGKKGDRECEEIA ETPFQIGSEAVPLDNPWNSSSSAGEWK RRHFLICILEGLERTKAKFLNCSKLSMVD QKPDENPAAFMERLREALIEQTSLSPSDV EKQLILKDKFVTQSASNIRRLKQKAIGP ISTLKNLLK*
3329	11380	A	427	215	870	RAPPNGLTDDQKKKGKGLRFRKLESFLHD SWRQKRDKVRLRRLEVKPHALELPDKH SLAFVVRIERIDGVSLLVQRTIARLRLLKKI FSGVFKVTPHNLKMLRIVEPYVTWGF NLKSVRELILKRGQAKVKNKTIPLTRH/S Q*WRSTWGKFGVICLEDLIEIAFPCKHF QEISWFLCPFHRLSGPSCYQK*SGLPQGD GHTWAIGVNASNQLIRQLN
3330	11381	A	4270	1016	1393	IFQLGEYIFLFLFSVFEMESHVQTQAGVQ WCNLSSLQPLPPRFK*FCSLSLSSWDYR QMPPCLANFCIFSRDGVSPCWPGWSQTP DLKRSALHGLPKCWDYRRETTAPSMFL QNLALVPMQQR
3331	11382	A	4271	825	1246	RAEGFCPNWCCQSNILIPCHDPPGSRSAQS DWACHLGWQGGSGQNHGVPAGFDAL QLPGNTSRVGAPOGGSGRGRKDGPGNS H*AHGTGWRECYGDRSRKRNRFWHL APPRSEIFLIILACTLRNNGSASCPRSCFDS SFLRVPRTGFRWGSTWGVTPGI
3332	11383	C	4272	442	522	MRCASPSTSKEFSCALLQCWLQDLG*
3333	11384	A	4273	322	1025	PLLCVLLAPPEGAVGDICKEDAGNMPS TSEGSYLEMAHFLRNKLAGSSVRKPDS GFLWEGALRAWSNMAAPSGGVNCEEFA EFQELLKVMRPIDDRIVHELNTTVPTPSF AGKIDASQTCKQLYESLMAAHASRDRV QKNCIAQTSVVKNLREEREKNLDDTL LKPT*EKSQRS*KWVQSELNVVEVVNDR SWKVFNERCPNSLQASKE*IKRDSFFFFF FLRTGSSHKS
3334	11385	A	4274	22	54	
3335	11386	A	4275	506	622	TRDSAHAYNPSTLGG*GGRIA*VQEFKT TRAHSYTLIPT
3336	11387	A	4276	296	495	KHVRPYITHSLGGKDFLILEKIWLGIVA HACNPSTFRGQGGRTA*A*EFKTS LGNIV RPCLYLKT
3337	11388	A	4277	270	558	FWIFLRSFYVIRKHLIGHFHPWPRVLKC* KHGGWKVHGGPGQ*RQKGTGKEGRKG LRGRRELTEGARPLFSSGPVESTQIVPLP QPPYVGAAAS
3338	11389	A	4278	51	113	
3339	11390	A	4279	179	387	ILVGFCCLPFPPSNK**THHTHTHTHPH THPVVTNRISLQGICRKGKQKTSQGPFTA TSLSPLSDSAV
3340	11391	A	428	476	821	TFTWPLFVRIERIDGVSTWCREPLQDFA LRKIFSGVFCKGTPQDSKMLRIVEPYVT WGFPNLKSVRELILKRGQAKVKNKTIPL TDNTVIEEHLGECYSLGVSWGRKPGSLK L
3341	11392	A	4280	464	596	EFSPGMGAYTRSPSTLEHSGQIT*AQEL ETSLANRVRPCSYMW
3342	11393	A	4281	468	564	YAFYRTQVPGGIRLV*CRLRVLWSNLIK KQS
3343	11394	A	4282	780	837	

3344	11395	A	4283	993	1050	
3345	11396	A	4284	175	387	HFGEAEAGWITRSGDRDHPG*NDETPSL LKIQNISRAWWQAPVVSATPEAEAGEW HEPQEARACSEAEFEP
3346	11397	A	4285	161	409	PPGVIIYLFVKVRLIWGNVMTV*VYMTL LSFPYPQICITYIKYVYILPI*NIYIYTHIC IYIPLFLCLLILAIKEGAAFNV
3347	11398	A	4286	1910	2120	SVSGFWLEAMLPSLSEGQPCRLQPFIGN KSLTGWVAHACNPSTLGG*GKWIT*AHE FQTS LANMMKPCLY
3348	11399	A	4287	1156	1320	KNSS*FFYFLSYLKNKNRPGAVAHTFNP NTLGGGWIT*YQEFETSLANIGKPCLY
3349	11400	A	4288	1497	1767	PSASPPQVPALPQWTGPGRQNPL*CLH IGLCSPQPSDGPWRKACSLFQVPSHQCG RIRKKINKVHICVFTASRVRWKPKPAAA NDQL
3350	11401	C	4289	1434	1655	MKKFSHILKKKFFCTLVPIIMLKL MENLK SQCKTKEGKYCTLAENLFHHKHC FPSS DHRSHFSLELAVVKKL*
3351	11402	A	429	33	370	ATRSRLGKHTRRSKSSAIQAVRIISQVLR CKQRCMHCPRTIPATLQEHKSVNNPSAQ QRTKTWSIHTPAPHPHPAPHPSTHQ/HPH PST/PAPHPSTHQHLIHPHTSISSIRTRG
3352	11403	A	4290	275	485	TNWKLSLCEKLYSTHCTD HKAVLFP*C LSCFVLLCVLFICVLFVGFRLSFCFVFTT SVISTSFFLA VS
3353	11404	A	4291	889	1199	KKCVVCVCVCVCVKC*LLKMLVGNFRA LWGSEWFLHHLSSTNRKMLSLQGHV
3354	11405	A	4292	502	768	SPCDQTPVEEGMLPKFRKSLQGS LN FH DILILPSQK*FCIRGSKTMYIWP GTVSHTC NPSTLGGQGGWIT*DQEFETSLANKVKP RLY
3355	11406	A	4293	3	309	IFGRDGFHHVGQAGLD*TPDLK*STHLG LPKCWDYRHEPPCLARRYFKNNNKKDN LLSHHTHKTTVNILPIFSSCTDVLHNHD VECNVFSLDLVNIFQSC
3356	11407	A	4294	204	317	
3357	11408	A	4295	1905	2032	VKHLDTGQK*GCNAFNVGSGPGPDAA PRWASRTPGGVNAGI
3358	11409	A	4296	2	225	KWQVTWLSFCSTFMSPSSWSSCS/PPCSA QPYPAPVSCDGP PPHRFPEPLD*GRLKTY FPPPCVNWGCWGQCVISQ
3359	11410	A	4297	299	663	IAHITEIRNLILHSLNNPLWLEPTRIEKFSP RGKVTSLHPRVKKMSPPSPKNSHPPEEV GSASSFLREPSPGGSQHSPYPAPSIDAM VPPYRVP*TPFGIKEDLTKPLFWGITFLL PCV
3360	11411	A	4298	1	406	MDWEGSLPLVFNYCRDASLIHPRFKGV RPRRDA CLGPSPLAASPAFLGKGQTITDA ELRVTLTVEDSARLHPGEINSHVAHTKP VWWSLHTDARETTHLQRT HFQSWLV/ CIRP/MNPAKSTVSSVRTQT*APLP
3361	11412	A	4299	236	768	VPCRESPRALALPRKEMMRA*NQNKTK HDSRHCRISPVGNMDIAENNYNSFKAEL GPNSSASTPPYNLFIASPPHTCSGLQFH STITDAELRVTLTVEGNRMSVVRSSFLGL NQLKLAKSMMAAYSIFEEPLASLYSNFH TK
3362	11413	A	43	46	511	QLRMAGAEGAAGRQSELEPVVSLVDVL EEDEELENEACAVLGGSESEKCSYSQGS VKRQALYACSTCTPEGEEPAGICLACSY ECHGSHKLFELYTKRIFRCDCGNSKF*N FGMQLLP*QSK/DVNSGNKYNDNFFGLY CICKRPYPDPED EIPDE
3363	11414	A	430	42	334	

3364	11415	A	4300	302	897	SVAKEGVEVEVSHTCGLKWGDIRGGCE GGFGLGEKAAMRCGCGSPGIVREADNLV KVSPPSVLIKKGTDLPTVRVTRRSASV MVLTMPLAPATFLRGNCWAGGGGLVTE *NCKPDQV*GGEMIKGL*GGG/VRGCGRI ET*LGLARRSLGRRGEVRLVWRSGLLP KYCAFTVFTTARPGDPLPCLAQWVPCP WSLAHC
3365	11416	A	4301	111	275	SRNETESRTRCEEGR**KDYRVEEQRLR KNWDLARPGKEQLPAFQSGNLSRQLH
3366	11417	A	4302	3	220	SLQPLSREDLGRSQSESLGPEFQGLWEW LPGELNSPICSVPHRWDVA*EESWAAG SPWPGGQISGTCSKLL
3367	11418	A	4303	2	347	LTMPLAPATFLRGNCWAGGGGLVTE*N CKPDQV*GGEMIKGL*GGG/VRGCGRIET *LGLARRSLGRRGEVRLVWRSGLLPKY CAFTVFTTARPGDPLPCLAQWVPCPWS LAHC
3368	11419	A	4304	2	265	
3369	11420	A	4305	3	865	
3370	11421	A	4306	288	597	TDFSVRCKGCRTGPFRLIFQDRIVGVEL IAV/C*RHGPRFSSCRLSCRRPDKTCRL MCHQRLSGFPQEQTQRDSRCIQLLRQR FAAASCPHQVLLQTOYF
3371	11422	A	4307	3	188	KPRRSRSESLGPEFQGLWECLPGELNSPI SSGVPQRWDTA*EESWAAGIPWPGGQID FWHL
3372	11423	A	4308	498	803	HLGPEFQGLWEWLPGELNSPISGVRHR WDVA*EESWAAGIPWPGGQISGTCSKLL EEEVLEEGLAAAVQAFGSSCVLEMWLG FVSQWRQGIATFFYYCTP
3373	11424	A	4309	3	338	KPRRSKGESESLGPEFQGLWEWLPGELD SPISGVPHRWDVA*EESWAAGIPWPGG QISGTCSKLLGEEVLEEHLAAAVQAFGSS CVLEMWLG FVSQWRQGTATFFYYCTP
3374	11425	A	431	55	1078	SERRRGLCLPSDVLDCSGPPMYCGIAE PSLRRWDPQRSPLASCRLLGCLAIPRH PNFPRPIASSSILQIKMATAAAAAAVMA PPGCPGSCPNFAVVCFLERYGPLLDLPE LPFPELERVLPAPPDVGNGEVPKELVEL HLKLMRKIGKSVTADRWEKYLIKICQEF NSTWAWEMEKKGYLEMSVECKLALLK YLACECQFDDNLKFKNIINEEDADTMRLQ PIGRDKDGLMYWYQLDQDHNVRMYIEE QDDQDGSSWKCIVRNRNELAETLALLK AQIDPVLLKNSSQDNSSRESPLEDEET KKEETPKQEEQKESEKMKSEEQPMDLE NRS
3375	11426	C	4310	321	734	MIKHQGKAAPVRRDRRQSFVSTDKTCLL CLSQKMKGIEIKRRERLKSQKEKVWLRD RERLEKRTILRASVFKGEKPAAGERGKV WSCDSIHVLQEKGRPQISVLCILNHRKY SPRFSVWSLKPPSMKLEVRRCQR*
3376	11427	A	4311	867	1111	RHCRYGTR/ARCSANAGAMILTMKQL AIVMRVYQHQRVRRSMRPGNRGARSMS AVGAYYSSCIRVMTALQSGTGDDEAVL L
3377	11428	A	4312	1	560	
3378	11429	A	4313	2	268	
3379	11430	A	4314	11	783	NLFLRPQKDQTYWYHRIQLGQTKHLLKEL KVYTYLLYATISF*DV*RHC/RSAILAEAK ETKETHFIRGPKTLAPVTDWEGSLPLVFN QCRDASLIHPRFKGFRPRRDACLGPSPL AASPAFLGKGQRLKTDARLPWKPPDH HRRRASGNSHSGRVQPPSRLPSWAHVEC LRLFQEHGASCQWIYRSIGIWRVTFMC VRVKRPPNRLCVSNMAVYFTWVQVHYP LYENNKTLRALRMIHVESLACGVRESS

						TNDNYY
3380	11431	A	4315	177	434	LCLWLQPPF*E*IAGQVGE*SRNETVSR TQCEGR**KDYRVEEQRLRKNWDLAR PGEEQLVPSSEKRDPLRVKDQGRCPV V
3381	11432	A	4316	1332	1602	
3382	11433	A	4317	797	954	
3383	11434	A	4318	1	817	
3384	11435	A	4319	3	93	LSPS*AIISPVPCTYTPRWPEATEDPQKK
3385	11436	A	432	1	568	
3386	11437	A	4320	874	1114	ESLGAQAEDYCRSGALTESLY*SSSKRK CGVGVPKQSLLYSTV*WSCGRGSLSFRP QNDRASSFPQYEEKSTEAKLPKGL
3387	11438	A	4321	264	1259	GDRWEGKKEDLGRVALGTETRKGLMC KRMPGH/AGTSDHLSILGQELFRSCRM KLK/RAI/CPAIWNYCRVCIGVKRHCRRK *DA*ILQDLNNSCPKIDKWSEVPDVQAFF YTSVPS
3388	11439	A	4322	607	769	SQVLRPTQPKEHLANFKSEDRSVRPLSPS *AIKSPVTCTCTSR*PEATEDPQKK
3389	11440	A	4323	495	658	GLTGTTWAHAFTHWLVLVLSHSTELSGC ERLCGPAELGTFTLWLF*RKPFADHWP
3390	11441	C	4324	218	352	
3391	11442	A	4325	444	994	PMTHPFFFFPAEVHEPNQRQAFLVPVSQ ARWTASSLFSSWVSASTSPQLEELQGST QTWHFSATCSQQPSRCVETVDPSSLLTQ QGLAFSAPTGRQAQRCSARMAWNP GDP LPPPSVHPCTPHCP*GPPQPPSASTPWG SCCSRWGHQAILGCRDRERCRGTCSSRP WLPLCLLPRFPDKWS
3392	11443	C	4326	296	625	MVSEGHTSPLAKSSASELHRTSWSTDNG MDFWRECQFRAKEIQGENEALNKSSKR AQKLVSIDLNERQVRRKYIVNAGSLLH FILSLLSSIHLLKTAFCVLLQGNLYTL*
3393	11444	A	4327	221	344	KVLSSDFCSVPFCVCVCVCVCVCVCVCV LTLL*NSSIIYGH
3394	11445	A	4328	441	656	AHNYIYFQRYIHQTYTDTGRGMRIGMR DQKKRPGTVAHTCNPSTMGG*CRKTSQ GQEFKTRLSNTVRPNL
3395	11446	A	4329	409	749	RRGRERKRHTHIHTHTHTANLFVSVFLY FLSFLHLCALCLS*WM*RCSANPILPTGP YASQTFMILPSCCTVISLPCHWLLFPQYS QTLYSLFTELNGQITVTSAKITYTSKI
3396	11447	A	433	1	572	ANNSPALTGNSQPQHAAAAAQQQQQ CGGGGATKPAVSGKQGNVLPWGNKT MNLNPMILTNILSSPYFKVQLYELKTYHE VVDEIYFKVTHVEPWEKGRKTAGQTG MCGGVRGVGTGGIVSTAFCLLYKLFTLK LTRKQVMGLITHDTPYIRALGFMYIRYT QPPKDLWDWFESFLDDEEVCQQG
3397	11448	A	4330	1682	2410	LNKGGQTDIASSQTCLVGHVESDGAHHT TMIGPNEPAFLSPENNNCPWQRRWTHI QKKKMNGMHTHRRNEAETIAGILTVQE LFPRNTSLTVIDVHSHSVLFCCTTIQVLISQ VNHLYLPLPQAFKFPVIFIIITSTGLLFTYV RVVMYNFVISYNGKKNQNI*KVICTELY FSSFLKMICMVRKRRGQPGEGRASRELC TFYTFVLCTALLILHPIMILLEPICKLLR

					KFICVYVNNIT
3398	11449	A	4331	2	57
3399	11450	A	4332	19	192
3400	11451	C	4333	218	364
3401	11452	A	4334	172	304
3402	11453	A	4335	258	509
3403	11454	A	4336	1	2411
3404	11455	A	4337	17	300
3405	11456	A	4338	257	476
3406	11457	A	4339	283	494
3407	11458	A	434	6	223
3408	11459	A	4340	766	1083
3409	11460	A	4341	2	163
3410	11461	A	4342	192	440

MTRVSSCFSDLATDRSFTHKGNNIVSSNS

KIISLTWMGFEILKTQHKI\*

PSPVFLAPGGVRAGNSLYPRGPGFH\*PRF

GPFPPRGTKREPPF

RGHSKQQRDIPRVL D H L M I N F S F K I V T V C

RSLYSFI\*KQAQVKLFLHLHPIPSSHTHTH

THTHTKPTLLLT K P S D D S W V F R W C

MSFLGILCKCPLQNESQEESYNAYPLPA

VKVSMDWLRLRPRVFQEA V D E R Q Y I W

PWLISLLNSFHPHEEDLSSISATPLPEEFE

LQGFLALRPSFRNLDFS K G H Q G I T G D K E

GQQRRIQQRLISIGKWIADNQPRIQCE

NEVGKLLFITEIPELILEDPSEAKENLILQE

TSVIESLAADGSPGLKSVLSTSRNLSNNC

DTGEKPVVTFKENIKTREVNRDQGRSFP

PKEVRRDYSKGITVT K N D G K K D N N K R K

TETKKCTLEKLQETGKQNVAVQVKSQT

ELRKTPVSEARKTPVTQPTQASNSQFIPI

HHPGAFPLPSRPGFPPTYVIPPVAFSM

GSGYTFPAGVSVPGTFLQPTAHSPAGNQ

VQAGKQSHIPYSQQRPSGPGPMNQGPQQ

SQPPSQPLTSLPAQPTAQSTSQLQVQAL

TQQQQSPTKAVPALGKSPHHSFGQOYQ

QADASKQLWNPPQVQGPLGKIMPVKQP

YYLQTQDPIKLFEPQLPPVMQQQPLEK

KMKPFPMEPYNHNPSEVKVPEFYWDSS

YSMADNRSVMAQQANIDRRGKRSPGIF

RPEQDPVPRMPFEKSLLEKPSELMSHSS

FLSLTGFSLNQERYPNNSMFNEVYGKNL

TSSSKAELSPSMAPQETSLYSLFEGTPWS

PSLPASSDHSTPASQSPHSSNPSSLPSSPPT

HNHNSVPFSNFGPIGTPHNRDRRTADR

WKTDKPAMGGFGIDYLSATSFSESSWH

QASTVSGTWTGHGSPMEDSSAVLMESL

KSIWSSSMHHPGSALEQLLMQQKQKQ

QRGQGTMMNPPH

TFKFYRNLNLFILKKS Y M Y A T F F I I Y I

YASFLVLTEIFYFIISKELLPVFIYQVYF

PCFFLG Y \* F I Y L S S K N P P Y N L F I L L P F Y N F F

NN

KAQMSLLDTLTHPVWLLCLKLCGAV\*V

KL\*EYF\*SICNICTAICVCGVCLCIYVTMC

VCVRAIERKLKEECLS

GQRCEPPPLPSFG\*DSG\*EPPFPAFQKA

GGPASPSPGPPGPH\*DPTGPASEWKMAT

MGNRPPEMVSA

TVTNFGEISGTIAIEMDEGTIHALDNGL

FTLGAPHK/ERIALKSGYGKYLGINDEL

VGHSDAIGPREQWEH

FKHFGPFKHHLMLVLFKIQNVLFKDGNL

FEVRRGGSRLSSQHFGRRADCLMSSV

V\*SQPGQCGETLSLKKNTKISQA\*WHVP

VVQATWEAELGGSLEPRRLRLQ

FVFFVETGFHYVGQTGLELLTS\*SARLGL

PKCWDYRHEPPRPAYVEYFYSALL

ATVWEEPPCSPPIPRARFWGPRPPECSS

RGQKPKPAYMSPPDAWRPAWLPSSTPT

						YD*T
3411	11462	A	4343	1875	2210	PLSQVITGKHQKRKRHLEEGKERPEKEQ SKHKRKKSYEDTDLDKDKSIRQRKREED RVKVSSGKLKHKRKKKSP*VYPPRKKN VSTGKRKRNLKKGQKRKCFGMSLFLG F
3412	11463	C	4344	217	396	MSEETAKEVMRAYLQQLRQETGLRLCE KVFDPOQNDKPSKWWTCFVKRQFMNKS L SXPGQ*
3413	11464	A	4345	1	546	
3414	11465	A	4346	216	324	VFFFSL*NEADRTLIIYITLYISECLKKLQK VIKLG
3415	11466	A	4347	71	650	NPGAAMKPAYHS\SLMDPDTKLIGNMAL LPIRSQFKGPAPRETKDITDIVEAIYYFK\ ANVVFQNYEIKNEADRTLIIYITLYISE\C LKETA KSGNSKKPKVEERKCFGLGIH*FF PFPGEPPGFPL*QFFAKPANKQEDEV M RAYLQQLRQETGLRLCEKVFDPOQNDKPS KWWTCFVKRQFMNKSLSGPGQ
3416	11467	A	4348	552	872	SGPNCCEEADAQLAEESGNASHTSFTV* VRPRACHACNPSTLGG*GGRIA*SQEFE TNLGNTVRPCRNSGEVLNRKTVSIRRAL RVFSPLHTARLHPAAAAARAARA
3417	11468	A	4349	199	375	FSLGGIPPFHRRGNWVSREWPGTVAHTF NPSTLEGRGRWIT*GQEFETSLTNMVK T CLY
3418	11469	A	435	3	685	RTQSGNVYFASTSVPPRPGAAPGHILVLS RLQPLRAEVSRSRLRVEYSYVKTTLV FKGTKAKSKKKKSKDKK*QREDEETQL DIVGIWWTVTNFGEISGTIAIEMDKGT YI HALDNGLFTLGAPHKEVDEGPSPEQFT AIVKLSDSRIALKSGYGKYLGINSDGLV V GRSDAIGPREQWEPVFKMGKMASTSN SCFIRIHEAEDIEAKSKTAGEEEMIKIRS
3419	11470	A	4350	368	546	
3420	11471	A	4351	2	211	YVYIYKGIESRVSRACITPSMAALVDKR WKKPKCPLMYEWINKM*YTHTMEYYTE *KRKYCSTLSHATI
3421	11472	A	4352	1	676	PK*WGFLPLIYKKGKDGGGTWGGDVLP SPSLGQGGGKKGWPKREGGRDLGAERK AGKCREKWKQSKMKGRSRKTGGERVK KPEKHQDTGLFPFQIGGGGLRLSRVCVP QPQVGRGSVSLAQFLSCTSSD
3422	11473	A	4353	1029	1252	CKFVYSSLLFIYSSFFICLFIFLPFAPVLI Y LAH*LCKPCSSYMSWVNIQYSIYFRHKC FRNIVQKILYSIKM
3423	11474	A	4354	299	561	FPSWQRDAQASLTSPAPLIYPKATPFRKR PFRRLWNKGLIQSKLTQRLYTVAHTCN PSTLGG*GRQMTWGQKFKTSLANMVKP RLY
3424	11475	A	4355	17	195	FMDAQVTFKLYIYIYTYVCTYMYIYTY V*MCEYLFYIYARIYMYI*MHYTYISL TP
3425	11476	A	4356	3	565	
3426	11477	A	4357	1	597	
3427	11478	A	4358	1	567	
3428	11479	A	4359	1596	12368	
3429	11480	A	436	115	662	AGFSLSAQKSPGAMA*YSYVKSSKLVLK GTASKKKKSKEKKRKREDEETQFD/IVGI W*TVTNFDEISGTIAIEMDEGTIHALDN GLFTLGAPHK/ERIALKSGYGKYLGINSD ELVV/GRSDAIGPREQWEPVFQNGACAA VFTVIGSEKQSECSLLRESRAKYHGCTH GOISSSLKQHPRWY

3430	11481	A	4360	48	436	RTGSSSGLSISATCLISQRRYSEDCWNVY SLVRSG*ERGS*LLSTYYVLGSLPDVFTY INSFQKTYLK*MGPGMVVHAWNPSLTLG G*GRRTA*GRELETSLSNIVRPLNNNNN NNNSNNEVNGIRKEG
3431	11482	A	4361	2	2551	
3432	11483	A	4362	322	1288	RKNWGLRKIPWSSLKQEQNLPEFSGSKK AFFGSTWRKKDGEPEFQGSGLCPLLKAR PLLSQLPLLRAISTRKPGQTWKNKEHHL SDREFVFKEPQQVVRRAPEPRVIDREGV YEISLPTGVSRVCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDITYHQRLTA WYGELPYTYSRITMEPNPHWHPVLGTL* NRIEENTGHTFNSLLCNLYRNEKDSVDW HSDDEPSLGRCPHSLSFGATRTEFMRK KPPPEENGDTYTYVERVKIPLDHGTLIME GATQADWQHRSQAQNTTLREPRVNLTF RTVYPPDRGAPW
3433	11484	A	4363	249	906	RIHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPPLGEALALSLHPVPRRSTET VAGDSSELQLGLRSPQQPLAGLAFRL FLLFPPP*RCKSKPN*NDRRRSSVDSQIHL VGRESAHLPLAGLRVCVSLPLARCFGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
3434	11485	A	4364	843	1186	QHSTKNSGGWAQTPYSSQISVCVYIHT YIHIYIFFFFLVETESHVTOAGVQWHN LSSL*PPPPGFKRFFCFLPSSWDYRRTPP HPANFCIFSRDGVSPYWPWSRTPDLR
3435	11486	A	4365	127	601	NLILNVTWPTQLAKQERLHLRLKTSVV WVVRKEKPTRFRLGAVSHCPQLLILQL VLSPTSTKTL*EPPDSESP*PKRK GKPSW GRTGAPNLHSPPLSPEGPPWAAWNPLKL PPQHSAGVPSACSPWAGSVPAAPPSV CYLIYWNLHSQALHR
3436	11487	A	4366	30	436	RRRCGGCFPALPGSPHKPHEQLPPLCPRV PVA*PSSSAEHPDPRAKGGGGRGL*AGS SPGAVPHPPSIPGRKNRMGSLEG/RGAP APRRGGSGAGAAE/ASLTWPGSTGPAPG SHGCSAGVGPSRWAWSLPQRCGRC
3437	11488	A	4367	497	924	KRGSRGWFFSTFHHLWGRLQAHLLGPT PALQPCDPGAGARTARPGQTASAAPPL PPRRGAGAPPLRDLARVPAPCCAQRAP PSSSQPGRNQ**AASGPWRPPRQAEKEA SAGKRRDRPVGARKTAAERDRRGQASG GQTR
3438	11489	C	4368	226	405	MCEKQPQNTTSFQGSYPKYTRGSLPELR QLLKVELFKKNWEHLQPRSMMLVRSG LSQE*
3439	11490	A	4369	3	275	TSMYVGPVAKDLLHPSAEENRKHTMK RLAQSPNSYFMEAKSP*CYKITTAFTHA QTVGWWVGCSTVLCQPTGGEARLTERC AFTRNQR
3440	11491	A	437	1	380	GPPASVRTDSGHPRRAEGAVSTRTQAD PLAPCGPPRPAGGQAYARLLLQCLLA AARPSSADGSAPDSPFTSPPLREEIMSN FSLESHNISLTHSSMPVENNITLERPSNV NLTCQFTTSGD
3441	11492	A	4370	266	455	AQWHTSIVLAAWEAAAAGLLEPRS*SRL KCTMIIPINSHCTPAWQHMRPCLLKKNF SNSFISK
3442	11493	C	4371	409	507	MNTRFLTCVPGWVKNDNYSIVCIDFPLV VIAI*
3443	11494	A	4372	870	1027	HLCMCVRVCVCACMCTLLHLFSNGFII* CFCTST*AIHVMG*VAIKMYINDP

3444	11495	A	4373	1	690	FHHLEDSIIIFDAFLTLRKKKRKKKHNG NMPIFSCLFHMVNPMKISTSLFF*HKYMI VPISQSHQYSSNGLSVLFLPVYRHSLFF MILSTLSFRCLANILSHSLFILLGLLINRSL SM*SVLLIY*Y*SYILLQYLLTVLEFFSFHI *VFSLLRILFFFKIFTFSIWMPLSQSYLLR HSVFTDVPYLISYILICVDLFLNTLFCSIG LFILGLTQHCLNSSSFHII*QSISSHLVQ* DCLCLHLCIFCALSCATKTKNKDVEIFIG LTM
3445	11496	A	4374	393	491	GLYLHRPIPHDKLLVQLSCPFR*THRG TES
3446	11497	A	4375	435	524	
3447	11498	A	4376	293	1228	NADNSLENFCRKSASCDLEQRRFIIRFIKL RRGSFSERKQQHSVTRKYFIQNWVLEK DNKALNTRVIYNRFLFMMYKIKQNTDD GDCRLLCSYHVLDRHCCKGSTCIDPFFL MTNYWCNYHAHFIDEHTEAQRARNGK QGDECEVGGIESRRRSGNSGARYVHDSS PPTSGIHSNARPSVRLFLATLSKIAFLTV SLLYEMTVHIYGEPLPRRQRTQLLEGVG TLNGSVASVDPVFRNQQLHLATGSLMA SSSFCSVLREHIGQSLIMKTLP*ITHTHTH THSHTHTHTERERERERETEREREVKF
3448	11499	A	4377	953	1317	VLTGVSPLYVSKGFWFLLFS*TMFSH SPTWAILESWSSLARFSGMSGEPQMTPIG LQYLA*G*RPNRPTLVTFTEIS*VYFFILP LMSQ*MCLMHLFPLPQTFQILQLYFFM AHIST
3449	11500	A	4378	9	359	PRKAELRIFEKVSVDAMAEDMEKLRPR LKKVHIRELVLASIMPKTHKPMTLRVT WREMLR\PRDLK*EVEGGCRRCSSPR/V DPPGGRREFRGGVRVRGRG\SAPPGGPG LSAML
3450	11501	A	4379	223	458	CLRRINPCSPRCRRPAWRRRRPGPRTRR RTDS*IRPKSGAASHPPGGAEGIPRGCS TRSRTRRRPEAPASRPCCLRI
3451	11502	A	438	3	217	RVMShRKVSAPRRGSLGFLPRKRSSRH RGKVNSLPKEDLVHPLHLTCYLEDSPAF ADIVRNVYKTGGSAMN
3452	11503	A	4380	887	1172	FFPESELAQPEKRF*VPGKGRGLSPRRL PPRCRRPAWRRRRPGPRTRRRTD*IRPK SGAASHPPGGAEGIPRGCGTRSRTRRR PEAPASRPC
3453	11504	C	4381	22	255	MPSSSAQLLLPHEVSPVLSCQLCFLKTR VCSYLWATVILGLDYCNLIPCLVSYFLL SLSLPCISVVFRTOILLHY*
3454	11505	A	4382	23	361	LTTLVFAAGTPGKKRRGGNQWR*SPHYSC SGGTGGRRPAPAFSLPGAPGQSGQISQSD WRRGPCS*SSGWCNSC/HPGWPLVRGG MTS*WSYS*ATGP/GPGYKAIPGAS*RST SL
3455	11506	A	4383	2	310	PLLPAHPPWWSLPVTS*PRCGSPORTSSW NRHSHRPA*SLPCLGFAAGTPGKKRRGGN QWR*SPHYSCSGGTGGRPAPAFSLPGAP GQSGQISQSDWRRGPCS
3456	11507	A	4384	1021	1565	PHLSPAGTPLLPAHPPWWSLPVTS*PRCG SPORTSSWNRHSHRPA*SLPCLGFAAGTPG KKRRGGNQWR*SPHYSCSGGTGGRPAP AFSLPGAPGQSGQISVPPCRVPPLLQSRA AGPSPSSFSKWELYCSHILPPLLYAHCQ ESLNTQQRLEASLSSLNASEPTTAKCPH GTAACLLGD
3457	11508	C	4385	361	612	
3458	11509	A	4386	448	683	VNMERKKDLTESSLPVPTKVPGMRMK LS*TLKTSLATRCQTLRLCSPPTNQRLS QQEGVGVGEKELRIYLAMWIK



3459	11510	A	4387	1977	2160	VNMERKKDLTESSLPAVPTKVPGMRMK LS*TLKTSLATRCQTL SRLCSPPTNQRLS QOEGV
3460	11511	A	4388	145	370	GRVLLVLFCEFFETESRVA*AGVQWRHR GSLQP*ASVSYELEAAVGYGGTTALQPG RQSRALYLKTKTKNFLNLS
3461	11512	A	4389	248	452	GWVFTMLARMVLQ*NHLNPGGGGCSEL RSHHCTPAWATE*DSVSKKKEKMKMR NETKTKWTCSPFIT
3462	11513	A	439	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3463	11514	A	4390	141	354	ARWADWLPLGIANCPRAHLAYLETWEL EAHWKRTIVNFCVCVCLCM*VCLVALR LFCSSGMHHSFNALQ
3464	11515	A	4391	354	592	IRCTQAFALTSSVSGPGTVAHASNPSTLG G*GGQIT*PREFKTSLGKMAKPCLYKNL GRHGDLCQARLLQLAEVEGFT
3465	11516	A	4392	63	353	ATEPVWPPCLWPQPLCAKDCRGVARP* CVRPPKASLVSPSSAGNASSIFMDYKCL SPCPFKQFLSSPPQSTEPSPACELGLINV LSSRPSLPSR
3466	11517	A	4393	357	559	LILETGSVCVFQAGVK*LCTSVIIAHYSL DLLGSSNPPTS DSRVPGCGDVHLYSQVD AAANLVVVA
3467	11518	A	4394	1048	1599	CRSKWGLASILWLKSFLGLHGGDGFK A*FKFHSKFTVLASSKCLLVGF*SHNYG *VRIHLFIY*IFIHF*KDFKSMFPRLVLSSW PQAILPPWPPKVLGLQVLANCIPMFHF NWLKSSKWLR
3468	11519	A	4395	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3469	11520	A	4396	38	553	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTILGEMP* KHLDDLKGTFQA*SELALVDKLHVG S*RTFKLPGEMLLVTRFWQSHFRQKNFT PEGARLSWAERWVTWSWPVALVLPRLP LKLNC
3470	11521	A	4397	74	432	TTGTLESLSNNAFCGALLPHPPAPGE*R PWS*HFTRYLGPLNRCAWEGGRG*TGPG LPSLGKALVEGIPSESPGPTVSHPPCSSRP DPDQSAASLHQVPPPTVHCCHLTLP WPGPQ
3471	11522	A	4398	1	176	
3472	11523	A	4399	1	188	
3473	11524	A	44	275	403	FSHFWPPEFLRD*MWLGVAHACNPST LGGRGRWIT*GQES
3474	11525	A	440	37	527	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTSLGDAIK HLG*SQGAPFAQA*SELHCDKPAMWDP ENFKAPGEMLLVTRFGQSHFRKNFTPE GCKASWAERWVTGVAASALVPSRYH
3475	11526	A	4400	1	118	
3476	11527	A	4401	1	227	
3477	11528	A	4402	1	157	
3478	11529	A	4403	1	133	
3479	11530	A	4404	1	169	

3480	11531	A	4405	1	143	
3481	11532	A	4406	1	89	
3482	11533	A	4407	1	166	
3483	11534	A	4408	1	190	
3484	11535	C	4409	21	218	
3485	11536	A	441	68	398	GPASNRALGFVVLETRMVSASVSDPPTS TTGSTMCECISIHVGQAGVQMGNACWE LYCLEHDIQPSGTMPSHKALWSSDNSFN TFFRETQPGRHVPGLSVDLEPAVIAQ
3486	11537	A	4410	1	206	
3487	11538	A	4411	2	185	
3488	11539	C	4412	247	393	
3489	11540	A	4413	1229	1784	RCRREMGSLSHVSVMVDSGFLWPCWRG PGSRTSNTVENRNPPPPRHPLGQLFILFQ SLSLHLSLS/CLSLSTSFQSLFLNLSVSLC QSLPSPSL/CFSIPLSNHTHTHTHTHTHT HTHTHTHTESGRC*SVLFFPPCPYLHYR *G*GVGSAALSPTPHYEMTVFKGNLLY LPAVSIVSRVNL
3490	11541	A	4414	76	297	EIRTLRSSLQSLWRRDVRWISGSLCKGH ASDHQLCQH*CTHTHTHTRTHHTHTHT HTHTHTHTHTHTHTPKMA
3491	11542	A	4415	48	327	EELEALRRQRLAELQAKHGDPGDAVAQ QEAKHREAEMRNSILAQVLDQSARARV SEQGLIEILKKVSQTEKTTTVKFNRKRV MDSDEDDDY
3492	11543	A	4416	786	905	VSEQGLIEILKK*CQLTEKTSTVKFNRRK VMDSDEDDDY
3493	11544	C	4417	58	237	MAAELEALRRPEAGRAAGPNTGDPGD AAPTGSQSTGQAEMRNSILAQVSGSSPA PGPG*
3494	11545	A	4418	115	432	LSK*CNKYTIHTHTHTHTHTHTLLNQPL K
3495	11546	A	4419	10	398	ENTVFIGLLKQQTRNIIPLKIFCLRLKIPP LTMPSPPPSPFRKSPDLVPAHTPKEGRLW PWPGPPGGPSKAAHARRPLSTCOD*PPQ REILPGPQPTSPTHCRMSREGRSGGTGAR ACQLPLLRPLAS
3496	11547	A	442	3	398	
3497	11548	A	4420	551	792	INFFFF*IIDRFSLCHPGWTAVAQSRLTAT LLPSRFKRFLCLSLPSSWEYRPLPPYPAN FCSKLLICLSTFYKDCGNSA
3498	11549	A	4421	56	193	
3499	11550	A	4422	1	3552	
3500	11551	A	4423	373	593	KKSLESINSRLQLVMKSGKYVLGYKQTL KMIRQGKAKLVILANNWPALR*SKRLNV LRLPRIHRERIYRSVNL
3501	11552	A	4424	118	206	VGGRPRSLRQGRWVARKEDEKSRWESI NSRLAQLVMKSGKYCPWGTSETLKMIR Q/GKAKLVILANNCPALRKSEIEYYAMLE KVTGVHHYSGNNIELGTAACGKYRVCT LAIIDSGGL*PFI*KACPEQTW*KEDEKS RWESINS
3502	11553	A	4425	1134	1287	HGQINQMEVNLPMDRKV*THHTHTHT HTHTHTHSSTSCPYTLKRNVKS
3503	11554	A	4426	102	443	SPIIPLPITTINILVYVLLAFLCIYHT*YLY IIFFTNIVSYTYCFITCVFHLIYIVNIIVY SLKNFTDTCSLWKIRSYRYAKRKYNCS KSHLPEINAFTLWQVSFQTL
3504	11555	A	4427	263	615	LVNVEGNIWVKLCHELQHGHLNSSPFLIL LSHSEKINRASIMLKRYKLNYYILSAF NPPPGKIHTHTHTHTHTHTHTHTESQKVK ST*EIT*IFPQQYTNLQREEHCYFLSHSE
3505	11556	A	4428	839	963	CVNGLVLGQAQLLRPVIPAL*EAEAGRL LEPRSSRSWANM

3506	11557	A	4429	526	710	MGVWLNILTPFGDQSAKGLTLQFKPAR HEFSQSGRTSFPIMPSPRLPDVA*ENPNG SLDP
3507	11558	A	443	1	255	
3508	11559	A	4430	2	539	
3509	11560	A	4431	920	1110	TAVVFLNKLQLHF*KFLSEAFDNEYGIA YNSLSSEILERLQKIDAPPSASVEWCRKC FGAPLI
3510	11561	A	4432	38	571	GSHRRCSEFITNYVHLYIFTLYIYIYIYIY IYIYTQMHSPPAHSVT*LYGNTSLSATLE RPVTPAVVAVGFRVRSEKQLIVYEGARP RG
3511	11562	A	4433	145	675	NVAVASLSGAHTWKKQSQVCFVSAGLE TSMEAAIGDLSVFPGLTQLEGIOGLVEP VQA*ASSWSSR*AAHSQGPQHPSYHRSH LPKPTQRNPERSQMEAPSPKPLDQPVPE KRHRGASAMRRRKPISEFLAEMLHVLA VREIELTNCPPHPEPNLATGKMTWLRSSS GFCESNRVT
3512	11563	A	4434	328	333	AFEFKRIDILTFKSSFAGSL*E*LHTHTHT HTHTHTNTCFLTMKELSNHPGNK
3513	11564	A	4435	1461	1710	SGVLGRAALLKPPSRARSSGGSSLSILR LSSPGLSSPSLPCPTSQDRGIPFQTFHLN VALT*AAHEMDWREPCVKTRTGS
3514	11565	A	4439	3	451	
3515	11566	A	444	2	732	YLVSCFRDMAFNFGAPSGTSGTAAATA APG\GFGGFGTTSTTAGSAFSSAPTNTG TTGLFGGTQNKGF\GTGFGTTGTSTG LGTGLGTGLGFGGFNTQQQQQTAVGYS CMPSNKDEGLVVLVFNKKETEIRSQQQ QLVESLHKVLGGNQTLTVNVEGKTLP DDQTEVVIIYVVERSPPNGTSRRVPATTLY AHFEQANIKTQLQQLGVTL\SMTRTELSP AQIKQLLQNPAGMFLESQSS
3516	11567	A	4440	26	529	NSTDSETHPWLLSPADK\TNVKAIAWGI KVGAGAGEYGAEALERMFLSFPTTKITY FPHFDLSHGFAQVK\GHGKKVA\DAL KAVAHVDDMPKRRCP*SDLHAHKLAR VGPGSTFKLLASHLPCLGEPWAAHLPRPS FNPWRLQRLPWGQSFLGFLK\HRCLNLP NTR
3517	11568	A	4441	294	600	ISCFLCSETLSNFALFLKESNGPVKVWGS IK/AMTENLHGFHVHEFGDNTAGRVLCF FLECIWEL*FII*LFLLINRICTSAGPHFN PLSRKHGGPKDEER
3518	11569	A	4442	517	758	
3519	11570	A	4443	80	725	SPAASGGFPLQSLPRTLGRGLSDFGDRS PVCVLKGRPKCRGIINFQKCRSNGP VKVWGS\IKGLT*KALHGFHVHEFGD NTARLYQVQGPHFNPLSQKTTVGPK\DE ESHG*DLGQCDCLTKNGVADVSNEDFV NLTLQGD\HCNIGRTLVPWKKPDDLGP KVGNE\ESSKTGNAGKSVWPCGVIGIA RINIPLGCSLRPPKLCVSC
3520	11571	A	4444	415	635	
3521	11572	A	4445	2	478	MAGKQAVSASGKWLMGIRKWYYNAAE FNKLGLMRDDTIYEDEDVKEAIRRLPEN LYNDRMFRIKRALDLNLKHQILPKEQWT KYE/EGLCSSSALCFLR*KDQPIECPSR SQUELL*SKLSPL*TAJET*AKENFYLEPY LK\EVIRERKEREWAKK
3522	11573	A	4446	323	400	
3523	11574	A	4447	2	396	RPPTTTKFAAARQMAGKQAV*STQAKG LNG/IFKKWYYNAARIQNLGLMRDDT IYEDEDVKRSP*EDFPENLYNDRMFRH* EGHWTLNLKHQILPKEQWTNFEEKNFY LEPYLKE/VLFRERKEREWAKK

3524	11575	A	4448	3	314	
3525	11576	A	4449	5	340	SGGTSAKAFRSIWGPLEPPVHRHGSPRSSV QR/DGPGLGTGEPRVYIRNKVANTGVPG APGPSIGGVTA PATDYCHRIAPILAARRR RRRRRRRRRRRRGGGGGVAGGGGGG G
3526	11577	A	445	2	681	AREGSALRVAGVTYLVSCFRDMAFNFG APSGTCGTAAATAAPA/GNTFLLFGGGF GGFGTTSTTAGSAFSFSAPTNTGTTGLFG GTQNKGF GFGTGF GTTGTSTGLGTGLG TGLGFGGFNTQQQQQQTTLGGLFSQPT QAPTQSNQLINTASALSAPTLLGDERDAI LAKWNQLQAFWGTGKG YFNNNIPPVEF TQENPFCRFKAVGYSCMPSNKGDEDGLV VLVFK
3527	11578	A	4450	1	117	
3528	11579	A	4451	1	1973	DGGARARGRAAARRRRRPRRRRRRRR RRRRRRRRRRRRRRRLGLERPQTSRGR APGASRAEEKMEELVVEVRGSGNAFYK AFVKDVHEDSITVAFENNWQPDRIIPH DVRFPFPGYKNDINESDEVEVYSRANE KEPCCWWLAKVRMIKGEFYVIEYAACD ATYNEIVTIERLRSVNPKNPATKDTFHKI KLDVPEDLRQMCAKEAAHKDFKAVG AFSVTYDPENYQLVILSINEVTSKRAHM LIDMHFRSLRTKLSLIMRNEEASKQLESS RQLASRFHEQFIVREDLMGLAIGTHGANI QQARKVPGVTAIDLDEDTCTFHIYGEDQ DAVKKARSFLEFAEDVIQVPRNLVVIGK NGKLIQEIVDKSGVVRVRIEAEKKNVP QEEEIMPNSLPSNNSRVGPNAPPEKKHL DIKENSTHFSQPNSTKVQRMVPFVFG TKDSIANATVLLDYHLNLYLKEVDQLRLE RLQIDEQLRQIGASSRPPNRTDKEKSYV TDDGQGMGRGSRPYRNRGHGRRGPGYT SGTNSEASNASETESDHRDELSDWSLAP TEERESFLRRGDGRRRRGGGKGQGGGR GRGGGFKGNDHDSRTDNRPRNPREAKG RTTDGSLQNTSSEGSRLRTGKDRNQKKE KPDSVDGQQPLVNGVP
3529	11580	A	4452	1	2115	
3530	11581	A	4453	2	424	
3531	11582	A	4454	1	456	RPRRPQREPTMVLSPADKTNVKAAWGK VGAHAGEYGAEALERCFCLSHHQDLLS HFDLSHGSSQVKGHGKKVADALTNVAG HVDDMPNALSALSDLHAHKLRVDPVNF KLLSHCLLVTLAAHLP AEFTPAVHAFLD KFLASVSTVLTSKYR
3532	11583	A	4455	25	640	EFHRLRENPPWCLSPA\DKTKAQRPPRLK LGAHA\GEYGGEPLERMFLSFPTTKDLLP ALRP*ATVSAQG*RAHGK\KVADALTN AVA\HVD\DMPTALTALAPERTCNGAQAF GWDVPVQLSSS*SHLPCLGEPWAAHLPRP SSTPGGCKASLGTKFPGLFVEAPLLEPSK LPLKLGSLRVGHCFAPLGLPSPSPSCT RTPVVFE
3533	11584	A	4456	906	1046	PDHHNWSQ*TTTGAQRQT*KRTVKEV*S AHNEAMCFGTCASDCLYR
3534	11585	A	4457	1	383	MVLMPVVSAIPEAEAKSSLIENDVCLSA KENHKSRAITRTAERFTE/SPHD/YPRK TARTGLRHAQQASL/PNWSTPLAARIAP VPPAANPQGVLLKSAGPHLLLLARTTTC NR*VPIASPTTHRME
3535	11586	A	4458	1	1509	
3536	11587	A	4459	579	919	PGSM/IPLSVSHSTGDDGRSLPKRRSTAPS MTSVYCFNCERCLVSCSLLLLSSLGPPCL AVLLAPFFAPFF*VFLLCVVVAGLPALLL LLVSSLLFLVLLSFCAASACFGFLSV

3537	11588	A	446	1	459	HRRPLYPAGIARMTRGRDTRTGCTRPKG SRTGGAVGAAMQEIIIGSVDHKFDLEIAV EQQLGAQPLPFFGMD/KTPDSQAPISTVW GLLLPSLGLRSSLPRIFGPLRLFKESGA CEFFLKAACGKGGMCPFRHISGEKTVVC KHCLRGLCMN
3538	11589	A	4460	1477	1691	YCNVSFGANLERA*TSFSALFIDLQPPGY RTTTSKHKVSSSLIKGHVLLDHSFHDNT QLWISTNAFRFGN
3539	11590	A	4461	1076	1354	QQKCAVNLHSFLPITKLRLFASCRAAR CCSHLTSQPVTA*LAGKVNPLPLGNLWE CDTKAGSQAMRTHLSITWRAVMQLPVI NTTYQRGKR
3540	11591	A	4462	880	1242	
3541	11592	A	4463	832	1386	
3542	11593	A	4464	46	492	HPVTLGDNTYRTHIKQLIKGEVLFLHFTP DAVDVFRIT/MTLPL*RLQLSSQRADDQ RTLRCVVRGRDAVHAAVWQFVCIRLD VTEAVIFQFPFQLSDSETVSQRCVDVGT FCRQYTFIFRRIFYFAQMSNTLRLFD DYAEEIIDHRQ
3543	11594	A	4465	7259	7441	IASPGWS*ROECSSRSCAQCCQSTTT CRHAKQRLALAHKPLAKLAGNGITPR LRQICR
3544	11595	A	4466	538	1056	
3545	11596	A	4467	1	1134	
3546	11597	A	4468	745	1263	
3547	11598	A	4469	3506	3826	EVWRPARRSRDVSCSRSHAYVVP GTADWLWPS*RPSTTGVC*PVTWR WLEGQWTPHLGRVLQEDSDSPTF PSALGIQETREPCLKSPREVPTSGRT GVFHYVA
3548	11599	A	447	1	811	DGTMEDSEAVQMATALIEQRLAQEEN EKLRGDARQKLPMDLLVLEDEKHHGAQ SAALQKVKGQERVRKTSLDLRREIDV GIONLIELRKKRKQKRDALAASHEPP PEEITGPVDEETFLKAAVEGKMKVIE KFLADGGSADTCDFRRTALHRASLE GHMEILEKLLDNGATVDFQDRLDCT AMHWA CRGGHLEVVKLLQSHGADT NVRDKLLS TPLHGAVRTGQVEIG EHFLSLGLENNAR NREGDTALH DAGRNVNRYPIQ
3549	11600	A	4470	1	751	
3550	11601	A	4471	482	1200	VFSGPFSGVGFFPFGSLCPCELS ATVLEVAPPLPGNRMSSRITMLSE SCQRMVIVGYGRCFADRQNL MVCLRSMPNVFTGSCARMRCC LSENLPVPPSKRAHTGRVAVKE SNQRWCSDGFEFCCDNGERL RVTFALDCCDREALHWAVTTG GFNSETVQDVMLGAVERRFG NDLPSSPVEWREGVVRNIDE EFGNESAQTGMLHHQLDPS VEGELHQNTGSTACCRADST HISHWRFM
3551	11602	A	4472	1271	1681	TVITTGIGRPFSMESVFALNALQ NSMMFTPC*PRAGPTGGLGCT SFSDEPILDGWPPQSSQLMIR MCFSVYTMLSESCQGMVIVG YGRCFADRQNL MVCLRSMP NVFTGSCARMRCCLSENLLY RHRNGHIAEWP
3552	11603	A	4473	739	1257	
3553	11604	A	4474	1	2661	
3554	11605	A	4475	1	2370	
3555	11606	A	4476	421	972	
3556	11607	A	4477	766	1073	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHPPDAGFHVFDV DGRFVLA*CCFKVLTLPGR SAISQSTPPRAPRAVAPLGS RHRLRQIAPLHAADYPAD

3557	11608	A	4478	1662	2045	PTALAAFSRRIVRITFLPVGDPGFHQSGS LRLS/NPDALQIQPACRIFSSALITSVFACS VHEGE*LPVDPGHIRALLHR*R*KAESAC AVPCI*AWTDREYGCNRRKSGVILRRT DDWMDGRRSRHT
3558	11609	A	4479	1	1803	
3559	11610	A	448	100	1532	EARRNWGAMGKARRSPPGHHRHCEGCF NRHCHIPVEPNTSCLVISCHLLCGATFHM CKEAHQLLCPLEQVPCLNSEYGCPLSM YRHKLAKHLQACPASVVCCSMEWNRW PNVDSETTLHENIMKETPSEECCLDTALAL QDQKVLFRSLKMVELFPETREATEEEPT MNGETSVEEMGGA VGGVDIGLVPHGLS ATNGEMAELSQEEREVLAKTKEGMDLV KFGQWENIFSKHAASALTNSSASCESK NKNDSEKEQISSGHNMVEGEGAPKKKEP QENQKQQDVRTAMETTGLAPWQDGV ERLKTAVDAKDYNMYLVHNGRMLIHF GQMPACTPKERDFVYGKLEAEVKTV YTFKVPVSYCGKRARLGAMLSCKPSE HKAVDTSDLGITVEDLPKSDIKTTLQCA LERELKGHVISESRSIDGLFMDFATQTYN FEPEQISSGTELADLTAATPGGLHVELHS ECVTKRHN
3560	11611	A	4484	875	1075	
3561	11612	A	4485	2097	2179	
3562	11613	A	4486	4274	5255	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLOHKDDNPPLRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYTAKNMIKDILKFIET GYNLSQKFIDKFFNVFRRYVYVMVVID FVLVSNIILPKFNHLCTHTHTHTLTLFST YLKNDRDKTIMCKLSLIG*LAELEFGGS GENVDYNYFCNIVCYRK/ADCFSLKFR YL YEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLCRIEKKSL SNLILSILWLDLGTLSV
3563	11614	C	4487	102	230	MFLSCRSVXXXXXXXXXXXXXXXXXSPFL LSPLLFLFHTYMRA*
3564	11615	A	4488	2	567	
3565	11616	A	4489	125	522	
3566	11617	A	449	124	602	WATTPFQPKSNSKMAELFMECEEELEP WQKKVKEVEDDDDEPIFVGEISSKPAI SNILNRVNPSSYSRGLKNGALSRGITA KPTSQHYTNPTSNPVPASPIKFHPESRSS DSSVIVQPFKPVSVSKTIRPAQGSIGCCL SISTVPSYNSGLS
3567	11618	A	4490	195	473	
3568	11619	A	4491	1	966	
3569	11620	A	4492	1	960	
3570	11621	A	4493	1743	1935	

3571	11622	A	4494	1	1540	NSGGSGGGTSGSGSSSGQKMGQSQSG GHGPGGGKKDDEDKKKKYEPVPTRVG KKKKKTKGPDAAASKLPLVTPHTQCRLK LLKLERIKDYLLMEEEFIRNQEQMKPLEE KQEEERSKVDDLRTGTPMSVGTLEEIIDD NHAIVSTSVGSEHYVSILSFVDKDLLEPG CSVLLNHKVHAVIGVLMDDTDPLVTVM KVEKAPQETYADIGGLDNQIQEIKESVEL PLTHPEYYEEMGIKPPKGVILLVPPGTG KTFLPKAVANQTASATFLRVVGSELIQKY LGDGPKT/LSRELFRVSEELAPSLRFIDRI LPPLGHKRYDASNSIGVRRELQRTMLELE LLNPVGMGFDS*GRL*KLSWATNRNETLA DPALIRPRPAFDSKIEVPLHDEKTKKRIF QIHTSRMTLADDVPLDDLIHGLKIDLS GA*HSRAICTEAGLMGL*GERRMKVTN EDFKKSKENVLKQEGTPEGVVSLMN HGLSSGKWLGDIPSIPERDEVGGSCPEESL FPLIFY
3572	11623	A	4495	125	320	
3573	11624	A	4496	1376	1509	
3574	11625	A	4497	2120	2313	
3575	11626	A	4498	2	266	
3576	11627	A	4499	918	1475	
3577	11628	A	45	2	343	NLCQVFIPFLFHSLLYVFKTILKGLFQASF LGHLLLLPLSGTPGRPGGGGAGGSGRGD PPAAGASRTIPWPLLLQQLSSSSSHFKA/P SKLSSHG*PRALGPPGPYHRPPSPGTT
3578	11629	A	450	1	368	ICRFNPYVFLAAKADQLQVRTTOLT/CKS CWLYHCINHSTLQTCNISTL/M/ILGHIPG LWILINLSEPWDATPVWHFVKLLTKLT HHACRASGNIFAIVSLVTLITSAVMSSVA LHSSVQMAQ
3579	11630	A	4500	1	822	
3580	11631	A	4501	158	668	
3581	11632	B	4502	151	336	ANSDSMVGYVLGPFFLITLVGVVAVG GPAAHLLPMYSYDPAEELHEAEQELLS DMGDPKV*
3582	11633	A	4503	748	949	
3583	11634	A	4504	1139	1241	
3584	11635	A	4507	41	488	
3585	11636	C	4508	187	342	MICKNKNKVILLXXXXXXXXXXXXXXXXGG AXXXXXTTPRRRGKKQFFLPPKQ*
3586	11637	A	4509	1304	1434	
3587	11638	A	451	126	373	GRGTSKILMALQRTSHLLLLLLTLLGLG LAYPSYGHVLYHRVVDNGHLEETLV MDRCLSVMLLRISRDCCERLIGLA
3588	11639	A	4510	1	1383	
3589	11640	A	4511	1	674	
3590	11641	A	4512	19	249	
3591	11642	A	4513	1000	1174	
3592	11643	B	4514	60	378	NAVLEADFAKRGYKLPKVRKTGTIAG VVYKDGIVLGADTRATEGMVVADKNCS KIHFISPNIYCCGAGTAADTDMITQLISS LAAMAVFEDKFRPDMEEEEAKNLX*
3593	11644	A	4515	1	437	DPRATEGMVVADKTCQKSTGRPELV AIRMLKQMLFRYQGYIGAALVGGVDV TGP/HLYSIYPHGSTDIAAGIFNDLGSGSN IDLCVISKNKLDLFRPYTPNKKGTRLGR YRCEKGTTAVLTEKITPLEIEVLEETVQT MDTS
3594	11645	A	4516	1	1059	
3595	11646	A	4517	1115	1307	

3596	11647	A	4518	3	866	FLGKMAAVSVYAPPVGGFSFDCNCRNA VLEADFAKRGYKLP RPRTGTITAGVV YKDGIVLGADTRATEGMVVADKNCSKI HFISPNYCCGAGTAADTAMTTQLISSW LKLHSLSTGRVLPVVVTANRMLKQMLF RYQGYIGAALVLGGVDVTGPHLYSIYP HGSTEKVPYVTHGFLAPLAAMALFER* V*APDMEEEEAKNLVSEDSPPQFPSPW RIFNDLGSRKPNIDPLPSSARNKLGFSPP HTQLPNKKGTRLGWP/RYRCEKGTTAV LTEKIPLLWST
3597	11648	A	4519	4	181	
3598	11649	B	452	1	1812	MPSPSPLFFVATIHDCELETTETGSPD LQDVPLEKADATVFTDGSSFLEQGVKRA GAAVTTETDVLWAHALPANTSQAQKAE IALTQALRWGKDINVDTSRYAFATVHV HGAICQERRLLTSAEKAIKNKNPPSSKPN RSSSSLGNNLRPDGSMYMHRSKGVPVAV SVNVNLTPESESLNLESSCVTKLSPEKEI YEMESLQWENMGKRINHHLQYNGLD NMECKGNLEGQEASQEGLYMCVKITCE EKATESHSTSSTFHRIPTKEKLYKSPNPS QDTGYSQHHTRTTFSKRQPKNCERFPVE GRPLTLPAQTSXGYSGSKPDVITLLEQK EPCVVARVDVTRRQCPAAPMVDSLIARV GVMARGNAITLPVCGRDVKFTLEVLRG DSVEKTSRVWSGNERDQELLTEDALDD LIPSFLTGTQQTAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDDDEQMAAL SRLGNDYRPTSAYERGQRYASRLQNEFA GNISALADADNISRKNITRCINTAKLPKS VVALFSPHGDYLPVPQAKGNNVVITSY MTNRGFFEDKKATFAPSFLMNIKGNKTS VVKNSILEQGQLTVN*
3599	11650	A	453	305	1088	NHWPMHLVTRFDVAIDFSQKEWECLDT TQRKLSRDVMLENNYNNLGLTG/SDLGS KPVVITLLEQGKEPCVVARVDVTRQCPG LLSRHKTKKLSSEKDIHEISLSKESIIEKSK TLRLKGSIFRNEWQNKSEFEGQQGLKER SISQKKISLKKMSADRKRPSFTLNQRIHN SEKSCDSHLVQHGKIDSDVKHDCKECGS TFNNVYQLTLHQKIHTGEKSCKCEKCGK VFSHSYQLTLHQRFHTGEKPYECQECGK TFTLYP
3600	11651	A	4538	1511	1687	
3601	11652	A	4539	425	619	
3602	11653	A	454	1	2088	
3603	11654	A	4540	122	621	
3604	11655	A	4541	2315	2790	AATTPALRPLRRSSFLMATTITKASTGT WSSSPSLPTPPTSTLRKAPTTLIQKWRP GAQQPSCPKPRS*PSSSTPRTGPIGTSTS EPMITTQWP*STPSMR*LPPALTHPRSCVP SRTAAWVLGWYATHIERWLSAYSQRPD SGLGWQTCFAQNLPK
3605	11656	A	4542	645	766	
3606	11657	A	4543	294	502	
3607	11658	A	4544	969	1158	
3608	11659	A	4545	147	402	GRGIQLFHEIQLQLSKTLCEPAVPVQRLR GRTAARWPGSRESPLRPVDFVEYCGVLI FIILFI*WRHFHSLCWSGDDIILACLL
3609	11660	A	4546	240	433	
3610	11661	A	4547	3	310	GGQPPHPAARPGGRWGCQPPARQPLRP GGSVSTGTGFPGRWQPETSWVSCRHC GPHLSAVWGLPR/LSPLPAGPNRPQQLS EFPRPKEFLTPTQKTKPN
3611	11662	A	4548	3	195	WPPGPLQPRGTEHRPPTDTPRAARSTR SHSPSEPRTRTPWQQR*LPRPSKPSHGPD VIEAA



3612	11663	A	4549	1	1439	
3613	11664	A	455	140	511	PTQSTRRIATVSIAAAVAPLTLFLYRGDG GLSSRRRADAAGG/APFSLCGEVAVKPP NPFTELMENA VNDGSHSEELFCHLKTIS QKEDLTRCTSESHLSWYSHQYQGKSKF PILGFPVLSII
3614	11665	A	4550	292	573	
3615	11666	A	4551	376	456	GEEPTSVF*RNQWNL RPHKHF GNASPW
3616	11667	A	4552	1663	1984	
3617	11668	A	4553	1735	1868	
3618	11669	A	4554	138	279	
3619	11670	A	4555	72	192	
3620	11671	A	4556	571	690	CQQGFSFLQAYGPAQHAISMRKFKAKY PDYEVTWANDGY
3621	11672	A	4557	130	943	
3622	11673	A	4558	45	405	GIPGRRNMAVADLDLIPDV DIDS DGVFK YVLIPSPLGIPAPGIRPAESKEIVRGYKWA IGHHADIYDKSVGATCRKQGLRTVSILG GGRIS/HTKSPGQERFTVYGYSMGLWSC PRTPIST
3623	11674	A	4559	613	866	
3624	11675	A	456	1	1014	
3625	11676	A	4560	69	430	
3626	11677	A	4561	144	294	
3627	11678	A	4562	13	759	
3628	11679	A	4563	177	328	INAHLKFKVYFLSQAPLKCTWKTSARE NHV*LTFLMFYGT LGTGVCFL
3629	11680	A	4564	218	343	
3630	11681	A	4565	708	916	
3631	11682	A	4566	829	1002	
3632	11683	A	4567	51	209	
3633	11684	A	4568	8	218	
3634	11685	A	4569	3	357	
3635	11686	A	457	577	2195	IMGCVQCKDKEATKLTEERDGS LNQSSG YRYGTDPTPQHYP SFGVTSIPN YNNFHA AGGQGLTVFGGVNSSHTGTLRTRGGT GVTLFVALYDYEARTEDDLSFHKG EKFO ILNSSEG DWWEARSLTTGETGYIPSNYV APVDSIQAE EWYFGKLGRKDAERQLLSF GNPRGTFLIRESETTKGAYSL SIRDWDD MKGDHV KHYKIRKLDNGGYITTRAQF ETLQQLVQHYSERAA GLCCRLVVPCHK GMPRLTDL SVKTKDVWEIPRESLQ LIKR LGNGQFGEVWNGTWN GNTKVAIKTLK PGTMSPE SFLEEAQIMKKLKHDKLVQLY AVVSEPIYIVTEYMNKGSLLD FLKDGE GRALKLPNLVDMAAQVAAGMAYIERM NYIHRDLRSANILVGNGLICKIADFGLAR LIEDNEYTAROGAKFPIKWTAPERALYG RFTIKSDVWSFGILLTELVT KGRVPYPG MNNREVLEQVERGYRMPCPQDCPISLHE LMIHCWKKDPEERPTFEYLQSFLEDYFT ATEPQYQPGENL
3636	11687	A	4570	2	217	ECGDVCDTGDRASVDEEGYIWFLGRSH HTINAS/GVV KALIVLTPQFLSHDKDQLI KELQQHVKSVTAPCIGC
3637	11688	A	4571	1	846	
3638	11689	A	4572	361	916	
3639	11690	A	4573	128	416	RQVLLFWGRGKYHNPFS PCLYPFSAFLG EGQVPLNPFSFTLSGKSRFSRQEP/LNPL FPHPDLLSVCNPLFPHPDPFPAFLEGKN PRTPRTRGST
3640	11691	A	4574	127	135	NKIVLKCWGGENFWGVVWRENGRCFS GLLQAGLGAAWEPRVG/IVRRNICCIE*L VMAWIRFCMN*KTK

3641	11692	A	4575	35	386	QLKTDTAQSPRPLDHHGHRASGNHSHG SIHPDGLK*LKNHHRSEKPCPTLTDDIPP QKKCKWPVLALSADITL*KSFSWLILAQ KAPPLSTL*PPLLPAREQMSFDCNFPLPT QIL
3642	11693	A	4576	148	336	IRTPKIGLFNSPGSHSQSPWNSGPRLSD/ WTPSQIFSA*QLKTDAAAGSPRKPPRPSRT PSFR
3643	11694	A	4577	4418	5130	DTISYQLEWRSLSQSETTDQAPMSSL*NF LRNPWLS*RLGA*/WNADEQGVPLIQE MLESWASICKVPKYPNAAEAVRPEEQTPH LHPGEINSHVAHTKL VWWSLHTDTHEI WCRSDRGTSLSGRSIPCPPALCSVRKIHL RPQVLRPTSPRNISPISNPHTRT/SQTPEPQ RPGVPPEPPSPGACYKCKQSDHQAKECL QPRIPPKPCICAGPHWKLDCAHLAATL RAPGTLAQGSL
3644	11695	A	4578	522	923	PSAAGLLEFAGGPLQTLFAWVSAEAAE QRVLLNSQ/WLLPDRSSGSFVSGSIWPCE VSVCPSSRCWRPRRKPLEAHLVQPQPT LLAPVLVLLAVCYGWSRPLAHTLFAAS RLAHGVDQRNNLVDKAQILN
3645	11696	A	4579	1	569	MGKKQNRKTGNSKKQSTSPPKERSSSP ATEKSWMENDFDELREEGFRRSNYSEL EDIQTKGKEVENFERNLEECITRITNTEK CLKELMELKTKARELCEECRLRS/LMRS TGRLLIKKTPFSSG*SRI*FNN*ASNSLY* NINSNKSLP*PLKGPILSKPSASNPICISLQ WVQAFQKSESLPAPR
3646	11697	A	458	561	966	GALCAASVPRCVWSSAGVVALFEEHCA PLVWVYTYECCHYMCSALLSLSCPCPAP SERAAGLCCRLVVPCHKIGMPRLTDLVS KTKDVWEIPRESLQLIKRLGNGQFGEVW MGMLRLNYSLSIFPVWKIPNTKDGR
3647	11698	A	4580	23	660	FIDSMPSPSRYQ*LSSQNWKLL*SSYGT KEEPASPSQS*AKRTKLEASHYLTSNYTT RLQ*LFQKHTMLSPRENLTQPACTQVK* TAMLLTQ/RPVWWSLHTDAHEIWCCDS DRGTSLSGRSIPRALCSVRKIHLRPQVL RPTSPMNISPILNQLSSLRLTLPDLRSPL DHHGRRASARLHPGEINSHVAHTKPVW CSLHTDTHENDKNKQ
3648	11699	A	4581	1	764	MIQEHADKQVQRLQGVLLGSIPTAASRA RLHPGEINNHVAHTEPVWWSLHMDAYE IWCRCSDRRSTLSGRSIPPLALCSLRIHL RPQVLRSTSPRNISPISNPGHLSDYTPTFQ GCQTMQGRLPWSFTLSGKSRSFGEGATQ ROYPIPPQALKGLMPAITRL/STAWPFKA YKLSLPFPHTCPKTRQALQVSSGSAPYQ PNCFAYPFHGAKPIYSSILNTCLYNPLFCS RSQTSFLYYSFAPFIPASLRIHLD
3649	11700	A	4582	1	400	MWNAVTLWQQRESCIEEESEIGTLETKE THFIRGPKTLAPVTDWEG/SPSLGV*SMQ GRLSDYTPTFQGFQTTQGRLPWSFTLSS KSCFS/AGRGKLLARPS*VPILPQPLLLH PTILLSPPLTPGQAYSFIP
3650	11701	B	4583	1	933	MEEKEERKRRRKRKRREGRDGERKR MEKQKENQDPKDPPTTSGPQTDQPKKH LTNFKSETKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSLIHPGFRGVRPRRDAC LGPSPLAASPTFLGKGPAAPRQTELGPNS SSASAPPPYNPFIASPPHTWSGLQFPSMT SPPPPAQQFTLKKVAGAKGIVKDLINLTF KVYNNRKKLQFLASTVRQTPATSPAHK NFQTPELQPGVPEPPPPRGACYKFQKS GHRAKECLQPRIPKPHICVGPVHWKSD CPHTLAATPRAPGTLAQGSLTPSQIFLA*
3651	11702	A	4584	1	582	

3652	11703	A	4585	1	622	MAKSFSGSGKSVCKSPKGKNNWTETRM IGDGGQLQEGSLTMKFEDGKYLFGFNIEG DFCEDSNFQTGESVSDVYFENVLSALQRE STGSGIAQERNDEGLESGRAVLCIEECLS ASLASTSQSSIEQPLPTSSPTKTKQNMTP DIAEYPQWAIWTSKTTTIVLRPS*VLILP QPPLLHPIIFLSPLLTPAPAYSFIPPSQTPS FG
3653	11704	B	4586	102	1151	MEEHFMLMGSKNOYRENGHTAQEKLL YAFHNISLKQSSSLSLSQNFNNENNDGS KDDDDGGDDDDDCQASEAKPNSACLHP GEINSHVAHTKPVWWSLHTDTHENDNG DVGGDNVDDDDVDDGGDDGKDDGDD DDGDTVMMVMMIMMMVLMVVMVVMVV VVVVVVVASRKAFLFLINGEESELESHLT GFANIPNHHLTVQHIYTPILPSGETKETR FICGPKTPALVTDWEGSLPLVFNPCRDS LIIQPRFKAASPAILGEGQVPLNPFSTLS GKSRSFSGEGARAYYKCRKSDHQAKECP QPRIPPKLCPICAGPHWKSDCSTHLAAAP RTPGTLAQGSLTDSFLA*
3654	11705	A	4587	258	479	TAAARRSSRTSSHRSLHVPEIWPLGQG MPAARDSS*AASHLCRTPPKIGLFLNPGS HSQSPWKSQPRLS*LLPRSSRLSS*RAL GOISRGSGSGCQVS
3655	11706	C	4588	259	531	MSPAHNKFNQTPEPQRPPIPPEPPPGACY KCQKSGHQAKECLQPRIPPKRPICAGPH WKLDCPHTLASTPRAPGTLAGQSLTASQ IFLA*
3656	11707	A	4589	1	446	MNLNRNALVLTLSFDSARLHPGEINSHV AHTKPVWWSLHMDTHEIWCRSDRGTS LGRSIPCTPVL/VLSRFKKIKACYHSPATS WPFKTYKLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPSFVLNTF LHNSLCRA
3657	11708	A	459	46	949	ARRPRPWLSSARTPRRPFWRPSCCSPM LTTSETLMMKNIDPSGLETQPF/YEVLQ SNIQHVLVYENPALQEKALACIPVQELK RKSQEKLSRARKLDKGINISDEDFLLLEL LHWFKEEFFHWVNNVLCCKGCGQTRSR DRSLLPSDDELKWGAKEVEDHYCDACQ FSNRFPYNNPEKLLLETRCGPWCE
3658	11709	C	4590	228	260	MFLGLVGLRT*
3659	11710	A	4591	268	390	
3660	11711	A	4592	1	499	MAPTNCKGSRKCGRPHEQMHPYPLPL TLFSDSARLHPGEINSRVPHTKPVWWSL HTDAYEIIWYHSDWGDLPWETIPCPA LCSMRKIHLRPQVLRPTSPRNISPISNPEK *NGLKVF*KHTSPSSATNLKRPQGYFYH FPFSEFRPVLGMLQVTSFQKFTLL
3661	11712	A	4593	1	355	MEVYTQKAYWRVPLGSTVGDQGGHGR FIHPFAIKIEQGSTNRCPSPGSPATKYVLLC LHGEKVDLLPADQQSIFSPGRSTQGHLSI TGVLMNRHSTYMDKEKVKMVTALWTD EELSKLTWTRMKFDAMTQLGDLPWEIN PLSSCSLLREKDPPTTSGPQTDQPKHELT NFKSTTNHAPLTIPLKPNHSYPAECQYPV PQHALLKGLKSIITRLLQHGLLKPINCPYN SPILPVLKPKDKAYRLLQDLRLINQIVLSIH PVLKPNLTLSSIPPSTTHYSVLDLKHAF TIPLHLSSQPLFAFTWTDPDTHQAQQITW AVLPQGFTDSPHYFNQAQISSSVTYLGH LMKTHVLSLLIVSG*ESIWFVQHGVDQR NNLVDKAQILK
3662	11713	A	4594	260	487	AQACMYTSRWPEATEEPQKK*KWLVPA LTDDITL*HSFSGTVSLRSSPLSTL*PPPLP AREQPPLTVIFHHLPKS

3663	11714	A	4595	1	508	MNMNIKKIVKQATVLTFTTALLAGGAT QAFKENNQKAYKETYGVSHTRHDM QIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKTA/PSPGQ A/TVPILPQPPLLHPILLSPPLLTSPAYSF VP
3664	11715	A	4596	1	1246	MKGGRSLWLLPADGGSSGNGNELQGT SPHDYFSIAIKSTHIGLEYPTSRQSNRVSP QSKRIRQPLGLPSGITERGPPNNRQKGY TRQQFCHESPTNKGDRVIYNLTCLLYCC VRFLAGTGPHILYLSRLASNLELFKRDK GRGEQRKEEVTCFHKLLAEKENNPPFSFI YPNPIKRPHYPYLPSTLTFSDSAHLHPGEIN SFMAHTKPVWWSLHTDAHEIWCRSDR GTSILGRSILRPPALCSMRKIHLRPQVLR SPRNISPISNPHALKGLKPVITRLLQHGLL KPINSYPNSPILPVLPDKPYKLVQDLCLI NQIVLPIHPMMPNPYTLLSSIPP/CHNPLF CSGSQTCFLYYSFVPVIPASLRFHLD*P*H SS/WFSKLPGLYCRKASQTAPITSVKPKF HPHLLPISA
3665	11716	A	4597	182	750	KWPYCPSSAGQQTQLCSSSTNSNCLPY RGTSILGRSIPCPALCSMRK/MPPTTSGP QTDQPKKHLTISNPVAEAKGIVKVNAPF SLSD\PPKIS*RLGSFSSNHPYLQGRQYPI QQALKGLKPVITCLLQHVLLKPVNSPYN SPILPVQKLDMPYRLVQDLCLINQIVLPI HAMVNPNETFIPLTVLNP
3666	11717	A	4598	3	504	KRPHYPYLPLLTLFSDSAHLHPGEINNHVA HTRPVWWSLHTDVHEIWCRSDQGTFF WEINPPSSCSLLREKDPPTSGPQTDQTK KHLTNFKSGKRPLFTPSPTSLTIPQPLSPF NLGATLQSLPSLNFNFSHFVFTKETCFI HEPKTPAPVTDWEGSLPLVFNHC
3667	11718	A	4599	1	1032	
3668	11719	A	46	105	328	RDLHMKTTISKVY*LTIVH*SGSVGRDYE LHENPLVGPNIKLGFVDISHPNDEYSPL LLQVKSLLKEDLQKETIS
3669	11720	A	460	3	284	
3670	11721	A	4600	72	724	FQIAGKWHFQFFHPTRSK*FLS*N*QMV* GA*CPGILLHISPFVSVPSATRPKSSFFPS HLSPPQYQPVSLSLSNLPFLQTHVTS AFL PRLLLARPS*VPS/RSSASA/LSTLQSLYHL PSSHLVRLTVSFRDYPSTCPAIYS*KGG WSQRHSQG*CSF/SLYPKSDSV*ALFHQI* KSSPVHGSFGSNPKTLYSPSP*KVKRPSY SQYTFYYPICSRH
3671	11722	A	4601	2009	3197	
3672	11723	A	4602	3948	5007	VLQTFAVSVTAHKGGTPRVVCSQWVR GLADFRNEAADPHDQGMENPTDFLER LRGALVKHMSLSPDLVEGQLLKDKFIT QAAPDIERKLQKQNGPSLRDIFFSPQNGY NWRMASFYLPVANKWKILKSLYQILHL GPDWEGPYTVFLSTPMAVEVTGIDSWIH YTQVKAWKADGATSVNPEEHPKYQGEI NSHVAHRKPVWWSLHTDVNEIWCRSD RGTSILGKS/HPRSSCVLCSVRKIHLRPQV LRPTSPRNISPILNQELATRA/VKSGH*AK ECLQPGIPIKPHLICVGP*KSDCS/TSPGS HSQSPWNSGPRLSD/WTSPQIFSA*RLKT DTARSPQKPPRPSRMPFSR
3673	11724	A	4603	567	678	
3674	11725	A	4604	1	305	
3675	11726	A	4605	3474	3657	
3676	11727	A	4606	796	937	
3677	11728	A	4609	664	1059	
3678	11729	A	461	420	690	

3679	11730	A	4610	775	944	
3680	11731	A	4611	279	416	
3681	11732	A	4612	36	4704	
3682	11733	A	4613	124	672	
3683	11734	A	4614	688	940	
3684	11735	A	4615	561	663	
3685	11736	A	4616	217	378	
3686	11737	A	4618	198	347	
3687	11738	A	4619	201	424	
3688	11739	A	462	557	753	IIIEIGIMEQRKPWKKICYFICCASHAKGSL /CRRMKRAPVYYGRTVPSPDGSIHGEY HVLLELNTE
3689	11740	A	4621	305	440	
3690	11741	A	4622	936	1380	
3691	11742	A	4623	9	1230	
3692	11743	A	4625	942	1293	
3693	11744	A	4626	40	154	RCWLCPHALFLWLASHLCHFYTFCVQ AEC*VMPPHPL
3694	11745	A	4627	4	436	
3695	11746	A	4628	465	748	
3696	11747	A	4629	92	393	WPRSGPLRLLRTVCCCVLPLLSHSKLHKI SVSAPGP**QIPPPFQNRFSFCDTERG*GG ETPLVPGKFSSPHQTLL*GTSSGRTGSAG QLPLLYLSYKTR
3697	11748	C	463	137	274	MRKQLLLPQKKRRVYLLRITKKVEMIPQ DNENPGNTNCHDVVLVQ*
3698	11749	A	4630	1	1614	
3699	11750	A	4631	1	410	KGKVKEAAQRYQYALKKFPREGFGEDL KTFRELKVSLLLNLSRCRRKMNNSSSC VHILSSRQFAAALEDLNEAIKLCNNREI QRLLLRVEEECRMQQPQQPPPPPPQQ QLPEEAPEP*RT*TRPSSCVPTTVRSRDF C*EWKKSVD/TMQQPQQPPPPPPQQQL PEEAPEPQHEDIYSVQDIFEE
3700	11751	A	4632	1	972	
3701	11752	A	4633	196	390	
3702	11753	A	4634	2	4417	
3703	11754	A	4635	158	358	
3704	11755	A	4636	4	152	
3705	11756	A	4637	382	458	
3706	11757	A	4638	46	314	
3707	11758	A	4639	46	271	
3708	11759	A	464	1	2155	MKKKKMKEEEEKEKEEEEEEEEERR KEEDDFCNRTSPAGGSEGPQGESEQPAQ PPEQAGGRPGASPAPDEDAEAAGAEQG GDSTEATAKPKRSFYAARDLYKYRHQY PWKLSQFHSSVSHRRKEIDCKAFKWQDL AFFGELTRGKRSQHNYLRITRILKSLGEL GYESFKSPLVKFILHEALVENTIPNIKQSA LEYFVYTIRDRRERRKLLRFAQKHYP ENFIWGPPRKEQSEGSKAQKMSSPLASS HNSQTSMHKKAKDSKNSSSAVHLNSKT AEDKKVAPKEPVEETDRPSPEPSNEAAK PRNTEKDSNAENMNSQPEKTVTTPTTEKK ESVSPENNEEGGNDNQDNENPGNTNCH DVVLPRSPAPAAASSMGNLLGGVSFREP TTVEDCDSTWQTDSEPEPEEPGPGGGSE GPGQGESEQAQPPEQAGGRPGASPAPDE DAEAAGAEQGGDSTEATAKPKRSFYAA RDLYKYRHQYPQNFKDIRYQNDLSNLR YKNKIPFKPDGVYIEEVLSKWGDYEKL EHNHTYILWLPLTEQGLNFYAKELTTY EIDESSKTKEAIIHFPPWAYKNDARIFWN KT/GLIKLGMFARGVYWQESFQHLNESQ HNYLRITRILKSLGELGIESFKSPLVKFIL

						HEALVGGILFPILRQSAL\EYFVYTIRRTG RRKGRKA/LCGFAP/WKHYTAFQGNFIW GDPPSEKEQFGGGGQRPREM
3709	11760	A	4640	1	1815	
3710	11761	A	4641	1	1284	
3711	11762	A	4642	1	1650	
3712	11763	A	4643	1	1605	
3713	11764	A	4644	303	410	
3714	11765	A	4645	92	395	HHHSKLTVTLSPPFPCKPLPPMKAKLV EERKRNARG*SAKRRKMRQRSQVNPPSF VAPVEATQEHEWNAQTLGMLGTSCGT ACYCLELVSMGSRSSAL
3715	11766	A	4646	362	497	
3716	11767	A	4647	609	701	
3717	11768	A	4648	1	104	TYV*PSVFKVN*HPT*SSS*HRKDQTDIL NAINQ
3718	11769	A	4649	1	1398	
3719	11770	A	465	226	486	NWKTKIITSMCLWGNASFGQLGLGGIDE EIVLEPRKSDFFINKRVRDVGCGLRHTVF VLDDGTVYTTCGCNDLGQLGHEKSRKKP EF
3720	11771	A	4650	1	1149	
3721	11772	A	4651	3	242	
3722	11773	A	4652	213	658	EGPARHRLSPVRASKMTKKRRNNGRA/ KKGRAPRQGTAPLKIFPSGPLPPNCARC P/RRDKAIKKFRHSET*WEAAAVRDLSE ASVFDAYL\LPKL\YVKLHYCVSCAIHK QK*SGNRSS*SPAKTRTPPPRFRPAGCW PHGPPTKSP
3723	11774	A	4653	161	295	
3724	11775	A	4655	355	476	
3725	11776	A	4656	662	979	
3726	11777	A	4657	960	1387	
3727	11778	A	4658	696	996	
3728	11779	A	4659	240	461	
3729	11780	A	466	674	1026	LWAEGLVWGSIREWLQHTPPNGIRDW AKQRMWRTGQPAPTRVNISRPSPTPF PRFTTKLMWALGTDPFTHTHSHSFAH IHSCTHA/HVQEHTYTYSLPHTSRPFLKG SKSTPKP
3730	11781	A	4660	2939	3295	
3731	11782	A	4661	44	319	
3732	11783	A	4662	2	896	
3733	11784	A	4663	68	438	
3734	11785	C	4664	208	345	MSPDRNIECKATGFTETTYDLLFCKSV SFYQLLISSSGSKSIT*

3735	11786	A	4665	1	320	
3736	11787	B	4668	1	651	MQKEDCVIVLVKLAVEGMAPTQQIHLF VAITFSGWPRQCTGSSFKAIDFLDPDSV MQQIYSFHFGIMCNFDNHAFQNLMAVID NIKQDRDMDEAGSHHSQQTNTGTGNQT PHVLTHKWELSNENTWTQGGEHHTPGP WVLGLADFKNEVVDPHGVKPQTFTVSV TALKDDVSGIHSFLLVGSWSANFRNEAA EPSALFTIAKIWINLSIHQQMNG*
3737	11788	A	4669	1	112	
3738	11789	A	467	153	380	PRSWGQDTPSRGERSPNSSGTPGLPPPG GHPFSPQVVRPQLLPPTDLGPGPGGQAG IQGWPSCSPTQDGANSRL
3739	11790	A	4670	474	616	
3740	11791	A	4671	197	334	
3741	11792	B	4672	82	402	MGLEKLHPFDAGKWGKVINFLKEEKLLS DSMLVEAREASEEDLLVVHTRRYLNELK RKVLRPLRTQTGGTIMAGKLAVERGWAI NVEAIXRKVELEWGTEDEYLDK*
3742	11793	A	4673	1	1524	
3743	11794	A	4674	39	786	
3744	11795	A	4675	434	1333	
3745	11796	A	4676	772	1107	
3746	11797	A	4677	282	377	
3747	11798	A	4678	233	459	
3748	11799	A	4679	761	962	
3749	11800	A	468	140	754	TAMSSEEGKLFVGGNLFNTDEQALEDH HFSSFGPISEVVVKDRGTSSGPGGFGFI TFTNPEACFKLPMKKPMNRRSLEWSVR SRCWIMQAKSASGEPEGGLGAHWGL GSQLTFKKVVGPGGLIGELSFAMRAMN GESLDGRQIRVDHAGKSARGTRGGGFG AHGRGRSYSRGGGDQGYGSGRYYDSR PRGYRYRYGRSRD
3750	11801	A	4680	3	190	
3751	11802	A	4681	150	338	
3752	11803	A	4682	168	375	
3753	11804	C	4683	55	444	
3754	11805	A	4684	64	322	
3755	11806	A	4685	2	38	
3756	11807	A	4686	185	451	SQHFRPRQVDHLRLGVGDQLDQHGET PSLLKIQNWPGVVAHACNPSYSGG*GRR I/RLTLGGGGCGELRSCHCTPALATRAKL RLKKKK
3757	11808	A	4687	344	468	
3758	11809	A	4688	204	286	
3759	11810	A	4689	206	395	TFCLVFFQFSYNFQLVPVFNTALVC*RH* LIAFLNLRII*F*YKYISYIFVKL*QNQISKP WF
3760	11811	A	469	2	259	GGNDLAFPH/HENEIAQCEVFHQCEQWG NYFLHSGHLHAKGKEEKMSKSLKNYITI KPSTTVTAPCSKLSSCSWGWSWRTH VPT
3761	11812	A	4690	2112	2221	
3762	11813	A	4691	116	382	
3763	11814	A	4692	11	666	
3764	11815	A	4693	47	241	
3765	11816	A	4694	246	485	
3766	11817	A	4697	3	728	
3767	11818	A	4698	825	941	
3768	11819	A	47	1478	1732	GGQGRWITRSVQDPHGQDGEKPSLLKI QKLARHGGRRRL*SQLLGRL/RQENCLNL GGGGCSEPRSHPCTPAWVTEQDSVSKK KKK

3769	11820	A	470	198	353	
3770	11821	A	4700	1	299	MALRKNEVFEGWDGRKGVSHGEGCFSK GSNIGAYLGKSQEQFEGNIRGNRQIIVNN ESKLIKISEEDLTTPMRQRSNTLPKSFGSQ LEKEDEKKQELVDKAIKPSVEATLESIQR KLQEKRAESSRPEDIKDMTKDQIANEKV ALQKALLYYESIHGRPVTKNERQVMKPL YDRYRLVKQLSRANTIPIIVSRIPSRGWY NTFP*CPQGGCFPLASPGASSE
3771	11822	A	4701	1	238	
3772	11823	A	4702	1082	1436	
3773	11824	A	4703	126	417	
3774	11825	A	4704	867	961	
3775	11826	A	4705	3	242	
3776	11827	A	471	103	483	NTAVSTTVAGSCLASESAGAPLPSALSV GLGVPAPWNKGRSCLPGRPSTGEDLGA DFIPNPTLGLYIGWVQVPIRFLGSHVSLR PESLLTQLRLNAFVFSGHLHAKGKEEK MSKSLKNYITIKKK
3777	11828	A	4710	244	318	
3778	11829	A	4711	1	1605	
3779	11830	A	4712	1	816	
3780	11831	A	4713	395	1374	KVTLMRWLYKG*NSGPMSV/TEEMDLAI EASEMIVLQSLHKYQPR LHIVEVNDGEP EAACNASNTHIFTFOETQFIAGTAYLNAE ITQLKIDNNPFAKGFRENFESMYTSVDTS IPSPGPNCQFLGGDHYSPLLPNQYPVPS RFYFDLPQAKDVGSSRVNREVSKDF ADFGTTIKQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQTASPRALADSLMQLARQVSRLESGQ
3781	11832	A	4714	1	2109	
3782	11833	A	4715	251	623	
3783	11834	A	4716	36	69	
3784	11835	A	4717	328	441	
3785	11836	A	4719	560	688	
3786	11837	A	472	98	1339	GLRAAQAWAPRCRPRWALGGLGGTGL RSLASGGRGRAWLQPTGRETGVQVYN SLTGRKEPLIVAHAEASWYSCGPTVYD HAHLGHACSYVRFDIIRILTKVFGCSIV MVMGITDVDDKIKRANEMNISPASLAS LYEEDFKQDMAALKVLPPTVYLRVTENI PHIISFIERIARGNAYSTAKGNVYFDLKS TGDKYGKLVGEVPGVPGEPADSDKRHA SDFALWKAAPQEVFWASPWGPGRPG WHIECSCLASNGIWKNLDIHSGGIDLA FPHHENEIAQCEVFHQCEQWGNVFLHSG HLHAKGKEEKMSKSLKNYITIKDFLKT SPDVFRFFCLRSSYRSAYDSAMLQV SSCSWGLGSFLEDARALHGRGAAGLRL RQGS DAVGEALQH QEGREGGLGR
3787	11838	A	4720	245	382	
3788	11839	A	4721	235	425	
3789	11840	A	4722	253	363	
3790	11841	A	4723	235	320	
3791	11842	A	4724	1	1326	
3792	11843	A	4725	2	1502	



3793	11844	B	4726	144	2704	XHGSVVVWDLREDSRLHYSVTLSDFW TFRTATFSTDGILTSVNHRSPLOAVEPIST SVHKKQSFVLSPFSTQEEMSGLSFHIALS DESGVLNVWVVVELPKADIAGSISDLGL MPGGRVKLWDSSTDSHAVTGLQWSPTR PAVFLVQDDTSNIYIWDLLQSDLGPAK QQVSPNRLVAMAAVGEPEKAGGSFLAL VLARASGSIDIQHLKRRWAAPEVHSCVE RKWSGHTASRVHTHSPSLLLFCNPLDD WSRSFETEAPKHVVFEPYRNVKFVKK ETSKKANDLPLSLTPREELARCLWAPPSP SVEGPMTAEAVPWNESSHSSKGRREGPE PHRRRSSAEQEVQAARLQGERKARGE HGSRKGRENGAKQDKPRQAPPTVSVFR QSPSPRESAHSSGTRFQLGCSHTELTGG HLASLCDYLLQTPRPGVPEHRASPGSKC TRHSHSHTLGRGEGVVCTCPSATDTPQV VERESNPLDEVRRGHAGEHRLLSQSLST VGAESISSKSTGWAPLNAPVRTFLGESLG SAFSSASIALRTSVKRRHKWARPHNTGA RQPPGGKGTPPGGKEHPYEIKAPPCVSR WLSSPPGTPSCTTVRRSWLPSALKHCC VLRREMAVCHRLSKCPANAIVKHPCEG KSPPYRALWHRSGVWTVAGTQRSPNIR AHRDQTLRNNYTILIPNGNWRHGAYAG VSSFSRX*
3794	11845	A	4727	8	3281	
3795	11846	A	4728	162	347	
3796	11847	A	4729	201	522	
3797	11848	A	473	414	833	NVLVICQRNSNSFKLKFVRDDGEQTQQ DFSALQ/AS/SQGRPELVHSGVQGPWG HQPWVCONPLAKAAFTALLVLESLREE ERTVTAEGAPLSPGGPHTSPSPGRDAGG SNLGTFSRSYSQRLEFLSSRKL CNINCKL S
3798	11849	A	4730	205	424	
3799	11850	A	4731	343	500	
3800	11851	A	4732	103	361	
3801	11852	A	4733	1097	1298	
3802	11853	A	4734	874	1184	
3803	11854	A	4735	451	641	
3804	11855	A	4736	1	1215	
3805	11856	A	4737	1	417	
3806	11857	A	4738	19	345	AATLGHCPSIQCWRSAGSCPRASSSGPQ ASPMWV*STDLR*MSWATSLQGWCPQ WPPTPSCSQSSWAA/LHHRCGWVCHCH LTGEDLRPEARLPGGQQPGAGGPGPQ
3807	11858	A	4739	40	209	DGRCNSQWSRRLQGPWVHTEGPGPAS ARLPQPHPGPGCPLLCGHCVPEEYFP *LPQPHPGPGCPLLCGHCVPEEYFP
3808	11859	A	474	635	901	PHPEPKGPKLRAVLSPPDFPPGSRLAGSP GA\PPPPHPEDRLHQGSSHPHPIRLLER SLAQGGAAPLGPPRMPHGAAPQGCSPT PT
3809	11860	A	4740	2	4097	PCPPHADCRDLWQTFSCCQPGYYGPGC VDACLLNPCQNQGSCHLPAGPHGYTC DCVGGYFGHHCEHRMDQQCPRGWWGS PTCGPCNCDVHKGDPNCNKTNGQCHC KEFHYRPRGSDCLPCDCYPVGSTRSC APHSGQCPCRPALGRQCNSCDSPPAEV TASGCRVLYDACPKSLRSGVWWPQTKF GVLATVPCPRGALGLRGAGAAVRLCDE AQGWLEPDLFNCTSPAFRELSLLDGL LNKTALDTM
3810	11861	A	4741	2	10321	
3811	11862	A	4742	157	273	

3812	11863	A	4743	469	676	
3813	11864	A	4744	237	497	
3814	11865	A	475	816	1099	HFGEPPFFLRQSL/NSVAQAGVKWRDPS SLQPLPPGFKRFSCPSLPSSWDYRRVPPH LANFCIF/MSRRGFIMLARLAQPQ/CDPPI SASQSARITGV
3815	11866	A	4750	303	1978	
3816	11867	A	4751	142	408	
3817	11868	A	4753	49	163	
3818	11869	A	4754	665	733	AQEP/LTWCLLPTLVPGKCEWRQV
3819	11870	A	4755	334	520	
3820	11871	A	4756	3	222	
3821	11872	A	4757	133	205	DLPQAQSNLQWPRKTS*LKIPHERL
3822	11873	A	4758	250	532	
3823	11874	A	4759	524	677	
3824	11875	A	476	3	232	
3825	11876	A	4760	110	1520	
3826	11877	A	4761	1	635	
3827	11878	A	4762	2	4398	
3828	11879	A	4763	2016	2227	
3829	11880	A	4764	1388	1520	
3830	11881	A	477	2	732	FVPGAEMAASGRCLCKAVAASFPFAWR RDNTEARGGLKPEYDAGVIGAGHNGLV AAAYLQRLGVNTAVFERRHVIGGAAVT EEIIPGFKFSRASYLLSLLRPQIYTDLELK KHGLRLHLRNHYSFTPMRKRQVQAAKVP RCLLLGTDMAENQKQIAQFSQKDAQVF PKYEEFMHRLALAIPLLDAAPVDMAAF QHGSLLQKRRALSTLKPLLKAGRILGAQ LPRYYEVLTA SITKVL DQWFES
3831	11882	A	4770	620	903	
3832	11883	C	4771	230	487	MLNLASPLDKLTLQNTTQNGDSSTHISS NSIHKHTSSSSSVLFPDGTLEALFVSSPKV EASPLEAXVPCSAHSCNTSSKLNRRRL*
3833	11884	A	4772	1	350	
3834	11885	A	4775	97	185	
3835	11886	A	4776	845	942	
3836	11887	A	4777	510	636	
3837	11888	A	4778	22	333	
3838	11889	A	4779	310	422	
3839	11890	A	478	161	610	GRRPSPQETPRPTSLSGAPPTPRHSRCPN HTVSSASLSLPSRHRLFLTYRHCRNFSILL EPGCSKDTFLLLAIKSQPGHVERRAAIR STWGRVGGWAMGRHLKTD/GSSYGWH DA/RTPTQLMAYESREFDDILQWDFTE FFNLTLKEL
3840	11891	A	4780	1	140	KIRCEGLSRDLKGE/RR/RGKGHDG/LYQ GLSTATKDTYDAFHMQUALPPR
3841	11892	A	4781	17	283	
3842	11893	A	4782	2	673	
3843	11894	A	4784	131	523	
3844	11895	A	4785	197	582	
3845	11896	A	4786	235	416	
3846	11897	A	4787	280	569	
3847	11898	A	4788	208	486	VQRHCLAGLIHHPFQKWNPKDQILDPIW RQGRRSTSPRAPRRGPGARGPAPSPAP RGRRRWAGFRQRTPHTGPPAPTKAKT LLAGREPPR
3848	11899	A	4789	190	594	
3849	11900	A	479	15	405	GGTGAMAPW/AGGEHSRMNPLRAVWL TLTAAFLTLTLQLLPPGLPGCAIFQDLI RYGKTKCGEPSRPVACRAFDVPKRYFSH LYTISFLWNDISAFW/LFLFLLFTPLFSY LRFLFHSHLASCFFHLV

3850	11901	A	4790	523	722	
3851	11902	A	4791	171	320	QDLFSSSRQLEAFSNTCKRTQRTCRNTR MYR*RYSCGGTE*GSYPTNLE
3852	11903	A	4792	243	445	
3853	11904	B	4793	320	434	XQCPLNRMAGHISSPYRSEAVVSSPGAP VRTGPSWEFGK*
3854	11905	A	4794	146	609	
3855	11906	A	4795	874	1126	
3856	11907	A	4796	1	957	
3857	11908	C	4797	209	406	MTRCGSLGPSPLQGVYMATVRRGDSVW WGTECGRDSAPVRVSLFLLCSCWGWWS RGLTPWRPCGP*
3858	11909	C	4798	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
3859	11910	A	4799	250	422	ASAMVTSTSTPGSILMEVICLTISEGLCKS MSRL*ILIWKRSHVLEPSQGVFLVVI
3860	11911	A	48	1662	1858	PSFLETEPCSIQARVGVHDLGSLQPLPP IGSSNSPASASQVAGITGA*HHARLIFLFF VEMGCAE
3861	11912	C	480	80	370	MWAPREQLLGWAAEALPAKDSAWPWE EKPRYLGPTVFEDGAVLFTEAEWKRLSL EQRNLYQEAMLENLRNLGSLXXXXXXXXX XXXXLALDLNLGFWL*
3862	11913	C	4800	33	158	MRMQQPSVKPGFKDLQKCKTMPLLLM KYIVLENIGLKIFLR*
3863	11914	A	4801	3	344	AQDRLHWGQTQNNQQRGGHALVPAEV* WDHPSWQINSRFYPKEQ*KVFSTSSSSSS GGAVLKNPWGGQSLRGLARKNLFYRG PNKNLPGNFGKETLLWGGDKLGQPPSR NLRL
3864	11915	A	4802	7	1268	
3865	11916	A	4803	65	376	
3866	11917	A	4805	64	1355	
3867	11918	A	4806	2	451	AQKESRSVQRSWKLKPLIVLSPLQTGL TVQSTWSTCPVSRLVTLSQLLGVHSRSL SSRCRDEGFSDDPEATEPQGNPNPSC* GAGTAWGRMEPPAPQHPGDFPTPL*MS WC*DCVNPKTTHGPVLWPPFEAKTKQP DTLCSGAGLY
3868	11919	A	4807	239	580	ASTREVSLSGRTWPMIMVVPPTSAAWG MSLLSCTPLCFLPCRLSDR*PCSKASFSSD PRSSRRQVEVHLVKALPSPSEDAPPPPA RNSPAEASPVMPQNFLISAKPNPLASL
3869	11920	A	4808	1	180	FPGLGPHPCSNCHLP*APSPLLPG*PPL SSQPLSEERGSEGRSEGVDAAHTARLAP NG
3870	11921	A	4809	1018	1284	
3871	11922	A	481	1	1083	
3872	11923	A	4810	704	978	
3873	11924	A	4812	63	131	
3874	11925	A	4813	204	448	
3875	11926	A	4814	397	553	
3876	11927	A	4815	361	764	RSKYAASKPALAIWDHHPGNLVRISAVH *RHTWFKLLFNVIIFTVFSSHFFNLFFLLF CLFFIHHFFDQPGHCHLCVTPATCVRHL GIMRKSC
3877	11928	A	4816	137	262	
3878	11929	A	4817	265	394	
3879	11930	A	4818	1817	2233	RITFQERLQARSREVGSARPKTARQVC RLPAAAAKSPLARSRSACFRCLQKVTEE RECGRITGSP*TSSFTKTLRTITPFTSHKR RVGHIQSNQPPEDSNDRTLRLPEPECGCW SESWAPPHFASSNRGLPGSESME
3880	11931	A	4819	569	950	

3881	11932	A	482	3	503	TGTPVSTISWCCYLVCLLLACVRAQMW APREQLLGWTAELPAKDSA WPWEEKP IYLG PVT FEDVA VLFTEAEWKRLSLEQR NLYKEVMLENLRNLVSLAESKPEVHTW PFCPLGFGSQQLS QDELHNHPG FHA GNQLHPGNPCPEDQPQS QHPSDKNHRG AE
3882	11933	A	4820	1868	1912	TFVKN*DRSKHITY
3883	11934	A	4821	1003	1094	
3884	11935	A	4822	810	970	
3885	11936	A	4823	133	261	
3886	11937	A	4824	76	475	
3887	11938	A	4825	1	1647	
3888	11939	A	4826	1	1459	
3889	11940	A	4827	456	705	
3890	11941	A	4828	417	791	
3891	11942	A	4829	553	734	
3892	11943	A	483	138	2125	
3893	11944	A	4830	246	346	A FEENLLRVCKKLYSVFTQMPKMNFAN VFIGAN
3894	11945	A	4831	3	241	SCERARFWAAAVAGVAATRVRRLAIT GLTMERKVLALHARKKRTKAKDKAQ RK*/RLVPQHPLWIFLRHLLCSGFTS
3895	11946	A	4832	195	266	GVWRPLSGCNASSA*SQEPCTT
3896	11947	A	4833	1	1278	
3897	11948	A	4834	2854	3176	PVISSSVCRASPKSRIFSSQSSTARLLGF RSL*IMSAECIYFRPRRIW*IRN*TWSSVS F*HFHNVVQICPHEMGHQIHIEFLQRPC RCKNVQQTNHIFMFHMFK
3898	11949	A	4835	1	2991	
3899	11950	A	4836	472	575	
3900	11951	A	4837	1	248	
3901	11952	A	4838	676	788	
3902	11953	A	4839	212	677	
3903	11954	A	484	1	2580	
3904	11955	A	4841	92	316	
3905	11956	A	4842	1	578	
3906	11957	A	4845	788	1173	
3907	11958	A	4846	35	406	SGTPASPCLEMDPNCS CSPVGSCACAGS CKCKECKCTSCCKSECRAPFANLGDGPS *SREPRALQAGAGQ*PASPNSFNT*FRIR PQIALKMGCCSCP VGL/CAKCAQGCIC KGTSDKCSCCA
3908	11959	A	4847	299	981	
3909	11960	A	4848	152	797	
3910	11961	A	4849	1	124	
3911	11962	A	485	1	687	
3912	11963	A	4850	2	719	
3913	11964	A	4851	98	263	
3914	11965	A	4852	741	965	AHLPEFLLSPCPSLGGPRPRSHCRW*HCP RLRAAPPPA*SALCLGGCCECVAAPGRW YCWVPGDRACSPHTCAR
3915	11966	A	4853	105	284	

3916	11967	A	4854	407	1815	TRATRWRKRTKRYTLRKTERWSPRVIMD SASR/HAPGNGLYVNYGLKALNIHGGQK LTLAEHGGAYGATADMSAKIGGEDLAI NTVRQVSLNGQNDYQGATYVQMGTLR TDADGALGNTRELNISNAIVDLNGSTQ TVETFTGQMGSTVLFKEGALTVNKGGIS QGELTGGGNLNVTTGGTLAIEGLNARYN ALTSISPNAEVSLDNTQGEFSSKRRQTRK EIFLSRMEQILPWQNMVEVIEPFYPKAGN GRRPYPLETMLRIHCMQHWYNLSDGAM EDALYEIASMRLFARLSLDSALPDRTTIM NFRHLLAQHQLARQLFKTINRWLAEGV MMTQGTLDVATIIEAPSSTKNKEQQRDP EMHQTKKGHWPLWHEGPHCLVTTAA NEHDLNQLGNLLHGEEQFVSADAGYQG APQREELAEVDVDWLIAERPQKVPARHR LSAHGCVLYTALSRRIVALPLPVSAPP
3917	11968	A	4855	1020	1352	
3918	11969	A	4856	491	628	KTITNWRCYSRWPTCFGRK*YDWHRQ MTPPRQRAVLWTKSPKTV
3919	11970	A	4857	1	1872	MVIVPIGYAAQELFDVSQVRGGTPYGAT TIAGGDGSRQPSQEELSIARYQGEYVAG VRYRSTFYPGIS/ALSVLSHILVLYCTAGL HIGAIAIVPTRYAYCNSEFSSKRRQIRKEI FLSRMEQILPWQNMVEVIEPFYPKAGNG RRPYPLETMLRIHCMQHWYNLSDGAME DALYEIASMRLFARLSLDSALPDRTTIMN FRHLLAQHQLARQLFKTINRWLAEGV MMTQGTLMHQTKKGQWHFGMKAHIG VDAKSGLTHSLVTTAANEHDLNQLGNL LHGEEQFVSADAGYQGAQREELAEVD VDWLIAERPGRSASCIQKLNNTMIYVT HDQTEAMTMATRIVIMKDGIVQQAER NDWHFTIGAMYEIENVEGYGEDLDGLA DPSVYFNAANGPCRIALGYHEGPENIT RAPEEMRSFLLDAGAEYNGYAADLRT WSAKMTNDYAQLVKDVNDEQLALIA MKAGVSYVDYHIQFHQRIAKLLRKHQII TDMSEEAMVENDLTGPFMPHGIGHPLGL QVHDVAGFMQDDSGTHLAAPAKYPYLR CTRILQPGMVLTIETGIFYFIESLLAPWREG QFSKHFNWQKIEALKPFGGIRIEDNVVIH ENNVENMTRDLKLA
3920	11971	A	4858	1231	1407	
3921	11972	A	4859	491	553	
3922	11973	A	486	444	843	EKSVYSLIFPCVFFLPSTWEKEDAVNILQ FWLAADNFQSQLAAKKGQYDQGAEQN DAMILYDKYFSLQATHPLGFDRCCTIKKI ESNICREGGPLPNCFTTPLRQAWTTMEK VTQNFKRIKLQEVLLVELNKI
3923	11974	A	4860	3	278	
3924	11975	A	4861	2455	2871	
3925	11976	A	4862	656	949	LLHRFCRWPALAPGAILRQIPKKQQRVG LHYSPPMSYVSWRYRVCHWTITVFCLSK TLATSYARPASISVKNTKWRCFPLPKVK TNH*NIRICLPPPR
3926	11977	A	4863	448	582	
3927	11978	A	4864	495	920	WRRDRRCASHHFAVSVTTIGSSRDPDAG SLPVHSWRRKERRSALYLHSSRSRSHRT YPRDRRRRAFWVQPRCWLAAILSGH*T GGCT*NIRSHQLGTSQTLRCVQNHRCR RCRSSDRPRLRVLSWHARKYQTPGRCSE R
3928	11979	A	4865	1	2799	
3929	11980	A	4866	3675	4064	VSSDQNRFCNRCYGRQLQPGGCFSLWC QFSASKSYLSPSDL**W*/QLSPSASRLPL ASLTISSSLSCAGSASFHSRSHIPGRCTCR YLRVFGVAFWAVW**HVDFLKSQQGKS

						AKKRQIAEKGRNYTQNP
3930	11981	B	4867	1	2325	MNLMEQPAKDQYLSTQGLPVLVNSLAR YPQEALPITNYFAASELAPAVARAFNKL KTLRENARSWLLKYPEHALTGLLPAALG KAGEAQDNARAALRMLTENGHQPLLQE IARRYNQPEVTDVNALLALDPLDNHPT KIPTLPAFYQPSLWTRPVLKANAQSLPDS ALLHLGEMLRFPQEEALYPGLLQVKDVC SADSLAGFAWDLFTAWQTAGAPSKESW AFTAEFSSKRRQTRKEIFLSRMEQILPWQ NMVEVIEPFYPKAGNGRRPYPLETMLRI HCMQHWYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHLLLEQHQL ARQLFKTINRWLAEGVMMTQGTLVDA TIEAPSSTKNKEQQRDPEMHQTKKGNQ WHFGMKAHIGVDAKSGLTHSLVTTAAN EHDNLQGNLLHGEKQFVSAMPATKEP QREELAEVDVDLLIAERPGKVTKLKQNP RKNKTAINIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLKNDNQLAMLFTLAN LFRVDQMIQLPTYELSSGIGAVRRQAE DGTPAINSKRVYRIMRQNALLERKPAV PPSKRAHTGRVAVKESNQRWCSDGFEF CCDNGERLRVTFALDCCDREALHWAVT TGGFNSETVQDVMLGAVERRFGNDLPSS PVEWLTDNNGSCYRANETROFARMLGLE PKNTAVRSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNEWHPHSA LGYRSPREYLRQRACNGLSDNRCLEI*
3931	11982	A	4868	82	199	
3932	11983	A	4869	882	1091	VCHAAPPILRTTATSVPAVPGAASDSGY AAQFAAYIAC*LRAAFPSGGIHTAASHPS SISPRQRVTAGS
3933	11984	A	487	77	199	SKSRPIASNKIEAIKSLPAKKP/GPDGFAT EFYQTFKEEL
3934	11985	A	4870	3	274	
3935	11986	A	4871	2888	3076	KTITNWRCYSRWPTCFGRTK*YHWHQL LSMVRQLMVLWSKKISSWFMGPPIIRKSI LAENSI
3936	11987	A	4872	1	2043	
3937	11988	A	4873	222	513	PEGAPRTPGPLPRAPGRTSEGAGRRGGP LGPVVTMCLPRRQLSYPDVG*AEGGLPA LDPWPGHARGSEGPRRQGGAVLAVRLG GRVYVHLHTPGGQ
3938	11989	A	4874	20	161	

3939	11990	A	4875	1	2251	MAGVGAGPLRAMGRQALLLALSHRRQ GLYFHIGETEKRCFIEEIPDETMVIGNYRT QMWDKQKEVFLPSTPGLGMHVEVKDP DGKVVLRSQYGSEGRFTTSTHTPGDHQI CLHSNSTRMALFAGGKLYREERFRLTSE STNQRVLWWSIAQTVILITGIWQMRHL KSFFEAKKLVRRAALLSSAMEDSEALGF EHMGLDPRLLQAVTDLGWSRPTLIQEKA IPLALEGKDLLARARTGSGKTAAYAIM LQLLHRKATGPVVEQAVRGLVLPVPTKE LARQAQSMIQLATYCARDVRVANVSA AEDSVSQRAVLMKPDVVVGTPSRILSH LQQDSLKLKRDSELLVDEADLLFSFGF EELKSLCHLPRIYQAFMSATFNEDV QALKELILHNPVTLKQESQLPGPDQLQ QFQVVCETEEDKFLLYALLKLSLIRGKS LLFVNTLERSYRLRLFLEQFSIPTCVLNG ELPLRSRCHIISQFNQGFYDCVIATDAEV LGAPVKGKRGAEGPKGDKASDPEAGV ARGIDFHHVSAVLNFDLPPTPEAYIHRAG R**CDGPGICMTARANNP GIVLTFVLPTE QFHLGKIEELLSGENRGPIILPYQFRMEI EGFRYRCRDAMRSVTKQAIREARLKEIK EELLHSEKLKTYFEDNPRDLQLLRHDL LHPAVVKPHLGHVPDYLESKVPEPTAQL QAQRKEIQTHSQALLRLGLSGAEHIVE HRLTPFVDRRGSGAYCTA
3940	11991	A	4876	2	2318	
3941	11992	A	4877	866	1150	
3942	11993	A	4878	417	872	
3943	11994	A	4879	3	282	
3944	11995	A	488	29	380	SETPQAPTLPQTQGSLEGEERMEDIRTLT VALFTLICPGSDEKVFEVHVRPKKLAV EPKGSLEVNCSTTCNQPEVGGLETSLAD KVFAQTEQAQWKHLLGSSNLSPD TVLA HCHFH
3945	11996	A	4880	2	437	
3946	11997	A	4881	336	442	
3947	11998	A	4882	523	630	
3948	11999	A	4883	1	1004	MAPWPHENSSLAPWPDLP LAPNTANTS GLPGVPWEAALAGALLALAVLATVGGN LLVIVAIAWTPRLQTMNTNVFTSLAAAD LVMGLLVPPAATLALTGHWP LGATGC ELWTSVDVLCVTASITLCALAVDRYLA VTNPLRYGALVTKRCARTAVVLVWVVS AAVSFAPIMSQWWRVGADAE AQRCHSN PRCCAFASNMPYVLLSSSVSFYLP LVM LFVYARVFVATRQLRLLRGELGRFPPE ESPPAPSRSLAP/APGYANS AFNPLIYCRS PDFRSAFRLLCRCGRRLPPECAAARPA LFPSGVPAARSSPAQPRLCQRLDGERHL
3949	12000	A	4884	144	1423	
3950	12001	A	4885	1309	1702	
3951	12002	A	4886	1	648	
3952	12003	A	4887	1	1049	GGGGTTWPASVPPRHLACL RPAAPLRLP PSPARRAMPVAGSELPRRPLPPAAQERD AEPRPPHGELQYLGQIQHILRCGVRKDD RTGTGTL SVFGMQARYSLRDEFLLTTK RVFWKGVLEELLWFIKGSTNAKELSSKG VKIWDANGSRDFLDSLGFSTREEGDLGP VYGFQWRHFGAEYRDMESDYSQGQVD QLQRVIDTIKTNPDDRRIMCAWNPRDLP LMALPPCHALCQFYV VNSLSCQLYQRS GDMGLGVPFNIASYALLTYMIAHITGLK PGDFIHTLGD AHIYLNHIEPLKIQLQREPR PFPKLRILRKS* RKLIDFKAEDFQIEGYN PHPTIKMEMAV
3953	12004	A	4888	437	851	

3954	12005	A	4889	1	1063	
3955	12006	A	489	27	406	
3956	12007	A	4890	496	701	
3957	12008	A	4891	875	1156	
3958	12009	A	4892	76	382	
3959	12010	A	4893	71	228	
3960	12011	A	4894	69	242	
3961	12012	A	4895	146	431	
3962	12013	A	4896	3	262	
3963	12014	B	4897	185	338	MSTTFMGRSQATGGCVQTDTPGPPTLLQ DTQQLSVVHPDIQLEVGFPGGGGX*
3964	12015	A	4898	69	303	
3965	12016	A	4899	260	881	
3966	12017	A	49	245	616	NPPN*NPPNACVKPEFENQPKLKWSQRG VGGPRREGPPAQAPEGTAGRRADKL RVGWRPPPATSAQGSASHPPLFC*SSRSR GPSSPCLEAPTPGASPT*TIIPPRRAWRR ACWTWPCSCPTPCG
3967	12018	A	490	191	1074	RLPEMSSFGYRTLTVLFTLCCPGASDE KVFEVHGEAKGSWAVEPKGSLAEVNCST TCNQP*SGVGLGDLSD*GFCWDEQVQ L/WKHLYGFQTFSHDVTVLQ/CHFTCSGK QEISMNSN/VSALYQPPRQVILDTCNPLL GGFLGKSFHHLKLQGVPTVEPLGQP*PSF LVS VGNETLHYETFGKAAPAPQEATATF NSTADREDGHRNFSCLA VLDLMSRGGNI FHKHSAPKMLEIYEPVSDSQMVIIIVTVVS VLLSLFVTSVLLCFIFGQHLRQQRMGTY GVRAAWRRLPQAFRP
3968	12019	A	4900	373	491	
3969	12020	A	4901	1	232	
3970	12021	A	4902	3	701	
3971	12022	A	4903	3	1622	
3972	12023	A	4904	26	168	
3973	12024	A	4905	258	484	
3974	12025	A	4906	1121	1518	
3975	12026	A	4907	19	541	
3976	12027	A	4908	288	561	
3977	12028	A	4909	1	1857	
3978	12029	A	491	3	403	SWSGSAAALRMRPVRLMKVFVTRRIPA EGANLKVISTMSVGIDHLALDEIKKRGIR VGYTPDVL/TRYHRRTRSLPATYHLPPV AGGHRGSEEWWWTSWKPLWLCGYGL TQSTVGIIGLGRIGQAIARRLKPF
3979	12030	A	4910	81	414	
3980	12031	A	4911	1	507	
3981	12032	A	4912	519	858	GLSEILAIGFCPHQVQRGPLGKVLQSLA AQLPGPFTRLVHRRQSLHAVPKCIHAVP CSFTLFHLPQEGLQRPEFLAPWGLHLKA TPVWPFANPRCCSILGAGGYFVQLTGM S
3982	12033	A	4913	67	467	
3983	12034	A	4914	2	307	
3984	12035	A	4915	1	2112	
3985	12036	A	4916	796	1018	
3986	12037	A	4919	512	625	
3987	12038	A	492	2	465	DAAGANLKVISTMSVGIDHLALDEINKR GIRVGYTPDVL/TRYHRRTRSLPATYHLP PVAGGHRGSEEWWWTSWKPLWLCGY GLTQSTVGIIGLGRIGEAPTGPLARPGSHS VVCIPGTTCLKAETHMLSGHFACSRDIS NEGYSFVKHRQIHK
3988	12039	A	4920	206	366	
3989	12040	A	4921	504	690	



3990	12041	A	4922	3	336	
3991	12042	A	4923	22	129	
3992	12043	A	4924	852	1364	
3993	12044	A	4925	1	897	
3994	12045	B	4926	449	2578	MLLECEEEAVCVIMCASVKYNIRGPALIP RMKTKHRIYYITLFSIVLLGLIATGMFQF WPHSIESSNDWNVEKRSIRDVPVRLPA DSPIPERGDLSRMHTCFDVYRCGFNPK NKIKVYIYALKKYVDDFGVSVSNTISRE YNELLMASDSDYTTDDINRACLFVPSID VLNQNTLRIKETAQAMAQLSRWDRGTN HLLFNMLPGGPPDYNTALDVPRDRALL AGGGFSTWYRQGYDVSIPVYSPLSAEV DLPEKGPGRQYFLLSSQVGLHPEYRED LEALQVKHGESVLVLDKCTNLSEGVLSV RKRCHKHQVFDYPQVLQEATFCVVLRG ARLGQAVLSDVLQAGCVPVVIADSYILP FSEVLDWKRASVVVPEEKMSDVYSILQS IPQRQIEEMQRQARWFEAYFQSIKAI LATLQIINDRIYPYAAISYEEWNDPPAVK WGSVSNPLFLPLIPPQSQGFTAIVLTYDR VESLFRVITEVSKVPSLSKLLVWNNQN KNPPEDSLWPKIRVPLKVVRTAENKLSN RFFPYDEIETEAVLAIDDDIIMLTSELOF GYEVWREFPDRLVGYPGRHLWDHEM NKWKYESEWTNEVSMVLTGAIFYHKY FNYLYTYKMPGDIKNWVDAHMCNEDIA MNFLVANVTGKAVIKVTPRKKFKCPECT AIDGLSLDQTHMVERSEKINKFASVFGT MPLKVWEHRA*
3995	12046	A	4927	533	804	
3996	12047	A	4928	965	1109	
3997	12048	A	493	217	426	TLVNMVEADVTTTRCLIRSGIRVGYPDV L/TRYHRRTRSLPATYHLPPVAGGHRGSE EVSERRPGAVAHGC
3998	12049	A	4930	507	981	CWRSTATCYQWVIKSANRCTLQVGTRR RTMDNGDERHSRICPGM*EAARSLFIPT/ CQTRH*RPVPQRLRSNTAPIRT/RPRPSV HRPTGRESMPRTRPPEPEPLQTPLAATKR RSTSENASYSDALLRGLGKLSGKDREAR RGPRSRPGSRVQTAGAAL
3999	12050	A	4931	1121	1272	
4000	12051	C	4934	178	360	MGQELRHFGTVTWPMHRKMERRXFPRE QGPGXQLLPQWRGNEKTLGSAGRQGED HRLRAE*
4001	12052	A	4935	409	516	
4002	12053	A	4936	288	573	
4003	12054	B	4937	1	1152	MGSEAGCLVRAERFQLIVERDVRSSFPS WKELSMPGFIKQQAQVYVQFFLADALI LPVPRPCLHSATPSTPQTDPTGPEGPHLG QSRLFLLCHKEALMKRNFVPPGASPEV PKPALSFYVLGSWLGGTQRKEGTGWGL PEPQGNDDNDQKVHLIFFGSSVRWFEFL HPGQVYRLIAPGPATPMLFEKDGSSCISR RPLELAGCASCLTVQDNWTLELESSQDI QDVLDANKSLPESSLTDLLSDKSHNVYC CFRSSTYVQVLSFPPEITISIPHLIYLAEL LQGGQSPFQATASCHIVSVFSLQLFWVC AYCTSICRQSSARVDEPMTMFLWTLCTS PSVLRPIVLSFELERKPSKIVPLGTPSRSSS FQPFAARAKGGK*
4004	12055	A	4938	409	701	KEKVKNWLLNPLPKAQEFGYPSPLPA TLHLKLSRPCKLQDH/CCCHMVIHTGH HGFGSPILHQEPMGSRKYSRL
4005	12056	A	4939	301	573	

4006	12057	A	494	80	1058	RCSSPAGYPPRCRVALARAADCEVEQW DSDEPIPAKELERGVAGAHGLCLLSDH VDKRILDAAGANLKVISTMSVGIDHLAL DEIKKRGI RVGYTPDVLTRYHRRTRSLPC SYHLA\PLAGGL\QGSEEW\WTSWKP LWLCGYGLTQSTVGIIGLGRIGPGPLLGV LKPFQVQRFL\YTGRQPRSEEA\EFQAE FVSTPELAAQSDFIVVACSLTPATEGLC NKDFQKMKETA VFINISRGDVVNQDDL YQALASGKIAAAGLDVTSPEPL\PTNHP LLTLKNCVILPHIGSATHRTRNTMSLLAA NNLLAGLRGEPMPSELKL
4007	12058	A	4941	339	494	
4008	12059	A	4942	408	546	
4009	12060	A	4943	1421	1581	
4010	12061	A	4944	1	1113	MHQEDLRAWYLDLGLPSHQNAQPTAW KCQRAPSPYTHQDMALIPSPTARWLSPE KEPKQGEVGEKSLLPDPTLPLTDPRLTGS TEQAHAEGLAALMSALRVSHLQGRGGV VTLVDSQLGVIAVSSTQFNKGPSYRLLA DVQNRLLPKYDSQKEAELRSWIKGFTGL SIRPDFQKGLKDGILCTLVNKLQPGSVP KINASV*NWH*LENLSNFLKAMVSYGM /NPVDLFEANNLFESGNNMQVRVSLAL AGKAKTKGLRSGVDIRDKYSEKQNFDD TTMKASQCVIRLQITNKCASQSGMTAYG TRRHLYDPKNRILPPMDNSTISLQMGTN KCASQVGMTAPGTQRHIYDTKLGDCKCE NSSMSLKMGYT
4011	12062	A	4945	272	902	
4012	12063	A	4946	281	470	TGWSWQCTPSC*TTMCVYTFMTYTWAW GCPPNHVQPHA*PVSPTVLLNVGFRAGA VFSGHGYL
4013	12064	A	4947	1192	2248	APSKKLRSATLRRPGSSKDTARGPVSVG WCPSQEPLGARCATSCPWLCRLPSSVFS PRALAIRLGGGSGSLAGCAARLQGSVP CWPLARLRSASATPLSELRQQPAPPPRC DPGSRLSVPVAPCPAPRAPQPRRLPSGP RFCRCPSLSVCRSLG/PVSPPPQFPLPPCLP RWLARSLALGRGETASQANPRNLCKKL AMKFKKFFDGAIFEWSQSFLSPRPVRF PLEPEGSPVPASLPERPSRHPASSSGRLQ DPGLILCSLCHYLFIRTDYAVVTRAGNG GECVWLQKFPVKLASLMMSFGLYIGHF LGVPPANPQEAPRTRSFFTPKSVMESAV PGTAERVLHPG
4014	12065	A	4948	654	730	
4015	12066	A	4949	1574	1881	
4016	12067	A	495	3485	4056	DLPSRHRVMEACHVCCVRRGCCV/CAC /ICVCHMCSVWCVRCVLCVPQVLCVVH ALCV\CVCCCLQCARYVWCMCCVCSVLC MRCV/CVCVPRVLCV\CVCCGCSRCSVW CVCCVCRV/CLCV/CACAVWCVCCMC/L CVLCV/CACACVCCVCRVCSVWCVRCV/ CVCCACSVWCVLWCVC/VCMQCVCYV WCMCCVCCVLE
4017	12068	A	4950	207	315	
4018	12069	B	4951	199	420	MSLPIGIYRRAVSYYDDTLEDPA PMTPPPS DMGSVPWKPVIPERKYQHLAKVEEGEA SLPSPAMTLSSAIDSVDK*
4019	12070	A	4952	336	594	
4020	12071	A	4953	401	1301	
4021	12072	A	4954	388	681	
4022	12073	A	4955	272	452	
4023	12074	A	4956	256	381	
4024	12075	A	4957	58	301	
4025	12076	A	4958	562	1221	

4026	12077	A	4959	152	358	
4027	12078	A	496	1	858	
4028	12079	A	4960	184	361	
4029	12080	A	4961	2017	2406	
4030	12081	A	4968	1	396	
4031	12082	A	4969	67	180	
4032	12083	A	497	106	542	GATLGGMSEHVEPAA\PGPGPNGGGGGP AP\ARGPRHPQFSTPTPLNVRDLFHA\I FFKMAV\TY\SRLFPPAFR\WLEFFVLLK ALFVLFVLAYIHIVFSR\SPIN\CLEHVRD KWPREGNPALWKVRHNSSRAPVFLQFC DSGGR
4033	12084	A	4970	2	415	
4034	12085	A	4971	1090	1203	
4035	12086	A	4972	3	356	VQNRTLHFSLLYEPKRKSKPESYLYCYKI FQDEPLAP*AFL*IPASLSQIQ*FTSRK GK ASQNLITYVIKYSKMSLWPPEPSCKYLP CLKSNSSQLSWLLWCVLVWGVGWKYC QGWWGPPPLHLVSLWGGYSASRWEDIGK QHTSLRGVPKGVIFIIYI
4036	12087	B	4973	148	305	MDNSASVEQLQETLLRALRALVLKNRPL DTSRFTKLLKLPCGPFISLGHN*
4037	12088	A	4974	484	927	
4038	12089	A	4975	2053	2615	RGCPFGGRKAPFGLLFNVKDQTMFLSR TTYSLQELGAMGMGDLDSAMFDFSEKL NSLALTEELGLFTA\VLLVSADRSGME \NSASVEQLQETLLRALRALVLKNRPLE TSRFTLLLLKLPDLRTLNNMHSEKLLVLS GWTAPVTPPRAGLSAGCPLCTESELCTS LSFYETEKEKQTRILFILL
4039	12090	A	4976	173	520	
4040	12091	A	4977	44	213	
4041	12092	A	4978	840	980	
4042	12093	A	4979	72	464	
4043	12094	A	498	309	586	NKNLEISFFETESRCCQPRLECNGAISV HCNLCPLGSSNSPTS/ASQVAEMTGVC HAQLIFVFLVAMVFHLH/VGQGGLELLT SGGPPASASQ
4044	12095	A	4980	1	132	
4045	12096	A	4981	99	212	
4046	12097	A	4982	84	196	
4047	12098	A	4983	2	186	
4048	12099	A	4984	87	347	SLNFHIGQ*AQPHAGFGLRGS*GPCPPCC QANAC*APEPNDSMEDQAPGVRHPPLSN VKIQGSE
4049	12100	A	4985	176	1554	
4050	12101	A	4986	1	1863	
4051	12102	A	4987	1171	2784	
4052	12103	A	4988	176	464	
4053	12104	A	499	3	451	
4054	12105	A	4990	7	394	HHELQYPIRFCPIKSCCKGRNSLQNKIYD LSLQNFPPATLRQNLALSPRLECSGTISAP CNLHLPSSDSPASASRVAGNAGMHCH KQLIFVFLVETGFHHVAQAGLRTP*PCG SGPPRGPKSAGDLQ

4055	12106	A	4991	1	2201	MTNLMVERDSEAGTAASRFPGNHAAK GKAQAHYKVRPAEVRCLKLGPWEVT LRYTIKHPYKLCGKRQHVFFTSRSDV GFMLTTLKPGSVSVESKMNNKAGSFF WNLRFQSTLVSTSRMRLCCLGLCKPKI VHSNWNILNNFHNRMQSTDIIRYLFQDA FIFKSDVGFQTKGISTLTALRIERLLYAKR LFFDSKQSLVPVDKSDDELKKVNLNHEV SNEDVLTKETKPNRISSRKLSEECNSLSD VLDAFSKAPTFPSSNYFTAMWTIAKRLS DDQKRFEKRLMFSPAFNQLCEHMMRE AKIMQYKYLLFSLHAIVKLGPQNTILVQ TLRLVTQERINECDEICLSVLSTVLEAME PCKNVHVLRTGFRILVDQQVWKIEDVFT LQVVMKCIGKDAPIALKRKLEMKALREL DRFSVLNSQHMFEVLAAMNHRSLILLDE CSKVLDNIHGCPRLRIMINILQSCKDLQY HNLDLFKGLADYVAATFDIWKRKVLFI LILFENLGFRPVGLMDLFMKRIVEDPESL NMKNILSILHTYSSLNHVYKCONKEQFV EVMASALTGYLHTISS\ENLLDAVYSFCL MNYFPLAPFNQLLQKDISELLTSDDMK NAYKLHTLDTCLKLDDTVYLRDIALSLP QLPRELPSSHTNAKVAEVLSSLLGGEGH FSKDVHLPNHYHIDFEIRMDTNRN\QVL PL/SLDVGTTSATDIQRLITYISFAGLSEL KS
4056	12107	A	4992	3	485	LHTLDTCLKLDDTVYLRDIALSLPQLPRE LPSSHTNAKGGQRS*AALLGGEGTTPPSK DVHLAPHNYHIDFEIQNGTPNRNPAYP LS\DVDTTSCQLIFKE*LCYVFPRSAyclG SSHPRGFLAMKMRHLNAMGFHVILVNN WEDGQTRDGRCSQSPFLKT
4057	12108	A	4993	40	131	ATKAFEENEVYKTTLVVYCFKCVILKA SL*FRILLTEWFYMRWLKKYHIVCF/PLG DAKIFCFMYITVLFKLTLEDSC*TLVVYCF FKCVILKASL
4058	12109	A	4994	2437	2762	GIILFWAQLFPASFFFFFFFF*DGVSLLCCPG WSAVVRSQLTASSASRVQAILCLSLPSS WDYRHLPPCLANFFVFL/CRDGGFTMLA RLVLNS*AS*VHPPWPPQSAGDY
4059	12110	A	4995	1	299	FSLIKISMMLLMKMEK*NLQFIW/KPRRL QIAKARLNASSSSSSSSSSSSSSSSSVVW YWHKKRHIDHWNRLSNSINRHICSQLI LTKVPGANTKDHP
4060	12111	A	4996	3	358	
4061	12112	A	4997	76	386	VLPPPSSPALHSPAPPSTCPYLPGA/PPPLL PPCAGRSPAAAAPHCPAPCAPRH*GSR* LESPAPQGPQSRARMPAWPLPPAPPTD PTAPPAPRSHWPAAPT
4062	12113	A	4998	66	381	VLPPPSSPALHSPAPPSTCPYLPGALPPLE/ GPPSRPPRTFIGNPGGQGPGEVSPIVLRS PSQPH*PGNQGPCSSQPPGSPRSEHGC* HRCWALYGQQEKPAAPS
4063	12114	C	4999	36	236	MGPTIPDXSXFWRKPITWMPTWEGTSN VGPQPLSSSKSLHSXRGHPAPIPTGQAGP RDSGPGASP*

4064	12115	A	5	105	1711	VESNTGRKWTEAAGTGDIQCLAWGSSG DGRGGDPRGRVPAALGAAVVAAMAS PDPWAPGPKQPG/LMGRPSSPALWAQ PA*PPY/FPGLTPPCQEVQSFPPG/EQG RVLRRGGQNV*GEGRVQVCGRRPPCPS LMEPFVYTPASFPSPGQPGTGRRRQDG EPRLGTGGQTGSPGGLVSGPRGRAAKP GGTQGGGLVRQVPPGEHPTPGEAR*HLG WVGCP*RMGQGNFGVASKPFLDL/PGPM LGSTNCDNLGSFGLS/GPMFPKWPTSTGR LPKGPSAN*GG/PGMERPPGVMPSS/GHQ DPEASGPLDLLVRAALQGG*ALGHKIGG AS*TSQKAESLPQPLGPPGGGCYGITQNP LASGPKQTWSMGRPGSFPALWAQNRLT FLTTPRSPPCQEVQSFPPGQPSQAER RARLSPRERGGLKVCGRPPCPSMMEP SCLHTC*PLSLPASLRQAKEPPSCGLRAP S*HLRRPCLTPFRPQGLLGTSHCPQKPA PDSGLLHSPNSPRGFSGQCNPRLHPQL NPSNRDR
4065	12116	A	50	96	547	ADPAAPVPWFGPSQPGARAQWPGLGP AAPPPALCSPP*TD SGVQDPVSNAPWVN SQQWWRQ/PAATEKPPATKAPGLLVQEK YKVS*QKGW/PSTKKAKGYFP*NCPL QFLPPLSLPPGDISGQCPHLKPLIPPPS YPAPCPGFCPR
4066	12117	A	500	2	493	GLEFGTSHRLRENPPMVAVSCPTKTNVK GPPGGKVGAGAGÆYGVSEALERMFLSFP TNTKTYFPHFDL/SHGFAQVKGATAKKV ADALTKAVANVDDMPINGAVRPEATL HAHKL RVEPVNFKLLKPLACLVDGP HLPGRVSP LAVARLPWNKVSWAFCGQI
4067	12118	C	5000	231	521	MRAPVCQSQSVYFTQTISLKPTITVPGRC DAFQVTNNKLAQATQSEG VAGASNPD ESHEPAHGMQREFSGVTAVSQADTVMN YPVSNGWENRGSG*
4068	12119	A	5001	46	1438	LSTPTALVWPGHRPP*PIP*WPLCPQEGG PGGLPRGWSSGT VAP*S*AGGCEGKIQS YPQGSASWSEPAPSPS/PAFPAPFLMLNC SGPLALSLSGPKWAREQL*CVPPRALAT GLPLEVWL*LRPFPWP*CLPPPG/PWVQL LHSLSSCWGPPMPRTIRGIPPGSICRLCF CPAAGLPPWWLSSGQLPHPPGTPLCSVS *GGPDQPPLLCLSPWAPGLSSTALCHSRL VLPATPIPVVTWPSGLSTT/PPAPGATPT PAACFQQVPSAPDKPLLVSPPAKHPPVP PPVGLGLRAMDR/PPGPIPETPRDLPCHP TPPKSKLQARGPWPGWVD*TTSGWKLR KEALMGPTIPDPKSSSWAGPLVSLPLVL GGNPSPWNALRGKRDPRKCGNPQPPSPK LRKSPPTAPGKTPAPYSPREKAGPQKTL GPRGPPP*SRDPPL*LRTPADPGVVRTRGA GPPAPRRNP
4069	12120	A	5002	1	874	LDDALESCDEHGYRTASSSCLRKGMV KSSSNREL V*SRYTDITI/SGSTSEFPDWA AGQRGSSHPRRWAARQRRSSLHLYSEP DTDAKHQDDALTEEET*G/SRSASCAHW L*SNCCTATGSSTLLPLTSRL*LPRMAVK SSRASAALPSSRFSSWHRACSASPAAATT AAPSAWGLSSNIPSGPAGCAPRPTSFSL PGALPTTTRRRHSSDRSRSPSRGLTSAR ESGSKSPQG/TARDSRQALRSAMVTKTS WRMELDRECGRSSCTSTFCVSAASRGFL LQTSFRWE
4070	12121	A	5003	1	2487	

4071	12122	A	5004	227	2119	RCRKEMFSLCWAYYCI*KLQQIPMRLAP LPTLDPV*SP/GGASTATNSGSSVTSSGVS TATISGSSVTSNGVSIVTNSEFHTTSSGIS TATNSEFSTASSGISLATNSESSTTSSGAST ATNSESSTPSSGASTATNSDSSTTSSGAST ATNSDSSTTSSEASTATNSESSTTSSGAST ATNSESSTVSSRASTATNSESSTTSSGAST ATNSESRTTSNGAGTATNSESSTTSSGAS TATNSESSTPSSGAGTATNSESSTTSSGA GTATNSESSTVSSGISTVTNSESSTPSSGA NTATNSESSTTSSGANTATNSDSSTTSSG ASTATNSESSTTSSGASTATNSESSTTSSG ASTATNSGSSTTSSGTSTATNSESSTVSS GASTATTSESSTTSSGASTATNSESSTVSS GASTATNSESSTTSSGANTATNSGSSVTS AGSGTAALTGMHTTSHSASTAVSEAKPG GSLVPWEIFLITLVSVVAAGVLFAGLFFC VVSACVPLCECRDALKMPGGLEQLLTS RIVHWGTEGRPIATAEGWVLLAMKIRL AAEAKIKCFLDGMAAGLRSSLSRLGSQ AEALPTSQTMGGQAEILLSSQTGSRPNR GLFSLRRWAAGQRRSLTS
4072	12123	A	5005	124	670	FQRTKLLNGPGDVETGTSITVPQKKWLH VISPIFVQSLTLPFLAKWGDRLQLLQIEL AAREVSDI*EETV*NETYLLLCRKTLD TLKWAHSIPSYARLFYI**FCSLKLAFSQ FLLPAIDPYGVAVGGTVGHCLCTGLAVI GGRMIAQKISVRTVTIIGGIVFLAFAFSAL FISPDGSGF
4073	12124	A	5006	3	273	AAAPGNRASAPRLLLLFLVPLLWAPAA VRAGPDEDLSHRNKEPPAPAQQLQPQV AVQGPEPARVEVSGPGWGERGCRAGC AEYQAPGL
4074	12125	A	5007	2	986	AAAAPGNRASAPRLLLLFLVPLLWAPA AVRAGPDEDLSHRNKEPPAPAQQLQPQ PVAVQGPEPARVEKIFTPAAPVHTNTE DPATQTNLGFIAHAFVAAISVINVSELGD RTFVIAAIMAMRYNRPGCWAGAMLCL/ AGLMTCLFS/VLFGYATTVIPRGLYILMF QPVLFAIFGIRMLREGLKMSPDGEQEEL EEVQAVELKKKDEEFQRTKLLNGVPGDV ETGTSITVPQKKWLHFISPIFGQALTLTF LAEWGDRS*LTITVLAAREDPYGVAVG GTVGHCLCTGLAVIGGRMIAQKISVRTV TIIGGIVFLAFAFSALFISP
4075	12126	A	5008	2	439	
4076	12127	A	5009	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGKTQPPLKRA FSTEK*KFD*/TINLASYQIFNQL*ANCTK YVGCFVIEDYSGSESILCLLALIYNSFDF VSLV
4077	12128	A	501	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
4078	12129	A	5010	387	446	
4079	12130	B	5011	16	348	MVLDCGYRESVLPIYEGIPVLNCWGAL PLGGKALHKELETQLEQCTVDTSVAKE QSLPSVMGSVPEGVLEDIKARTCFVSDL KRGLKIQAAKFNIDGNNERPSPPPKC*
4080	12131	A	5012	1	595	MGCRPVGQAGLELLTSARTCFVSDLKR GLKIQAAKFNIDGNNECPIDTRKQLAENL VVIGGTSMPLPGFLHRLLAIRYLVEKPKY KKALGKTFRIHTPPAKANCVAWLG/GK VFVGI*QVEYAMKAVENTSSTAIGIRCKD GVVLGVRKISPF

4081	12132	A	5013	3	461	YIEDDMNPFQGNLEVEQRPKSKTFL*QG AAEQIKHILANFKNYQFFIGENMISWDM VLLLDYVKGWVCPYMIFFKDGLDMD KMLNKCGLFWIYHPVIHNWASALSSH TTTRDLRQNWTDCHPGALPFILDWGFYL GVGGHCFYEKPCPW
4082	12133	A	5014	3	325	RRVSSVTQAGVQWHGLSLQPPPPGFKL FCLSLPRSQDYRCMPRPANFC/IFLVETG FHPAH*DKLVSNS*PCGPPAPASQSAGIT GVT/HRAHLPCNV/C*LDLFHHHV
4083	12134	A	5015	1593	4449	PSGLGNTCIYRRGPHLPNSHRHAARGRIS ADRRFRHLGHRELHPAPCVPRGEPHPA PCVPGHGELHPALCVPRGQLHSVPCIP GRGEPH/RCTLCPRSA/RCTLHPRDLRF NRIREIQPGAFFRLRLNLTLLNNNQIKRI PSGAFEDLENKYLKLYKNEIQSIDRQAF KGLASLEQLRLDSNTLHCDCEILWLADL LKTYAESGNAQAAAICEYPRRIQGRSVA TITPEELNCERPRITSEPQDADVTSG
4084	12135	A	5016	1	3174	
4085	12136	A	5017	1	4759	SRPWWLRASERPSAPSAMAYRSRGPR RCLLALVLFCAWGTLAVVAQKPGAGCP SRCLCFRTTVRCMHLLLEAVPAVAPQTS ILDLRFNRIREIQPGAFFRLRLNLTLLNN NQIKRIPSGAFEDLENKYLKLYKNEIQSI DRQAFKGLASLEQLYLFHFNQIETLDPDSF QHLPKLERLFLHNNRITHLVPGTFNHLES MKRLRLDSNTLHCDCEILWLADLLKTY AESGNAQAAAICEYPRRIQGRSVATIT
4086	12137	A	5018	2	267	ADLSAEAL*TRREWDDIFKVLKTSS/LGQ PKILYPSKLSLINEASSSSSSSSSS/REFTT RLVL*EMLKGILHMEAQQGYLPS*KHTK V
4087	12138	A	5019	1	164	TRVNENQIESKAA YALFYKRQDVARRLL SPAGS/SGAPASPACSSPPSSEFMDVN
4088	12139	A	502	38	557	APSPDAMGHFTEEDKATITSLWGKVVN EDAGGETLGRLLVVPWTQRFFD\SFNG LSSAFCHPWATPKVKAHGKVLTS\LD AIKHL\DDLKG\TFAQA*SETALVTKLHV GS*RTFKLPGEMLLGDPFLGNPIFGKRISP LEVGRLSWAERWWTWSWPVALVLPRLP LKLNC
4089	12140	A	5020	1	712	EILIIHLKRFSYTKFSREKLDTLVEFPISG ARERMAGGRQKQEGVYQY*PSPHPQ\DL DFSEFVIQPNESNPYKYDLIAVSNHY GGMRDGHCMCQAVGGACPGGSGQGGD QDLPSE*LGM*ASGEGSSVVGRK*TRSEI WTLSEEARKGRRG*LSFFFR\TTFACNKD SGQWHYFDDNSVSPVNENQIESKAA YV LFYQRQDVARRLLSPAGSSGAPSPACS SPPSSEFMDVN
4090	12141	A	5021	3	3090	IPLLQLLRLRRLWRRHGRWTEPREPQHEE LPGLDSQWRQIENGESGRERPLRAGESW FLVEKHWHYKQWEAYVQGGDQDSSTFG CINNATLFQDEINWRLKEGLVEGEDYVL LPARAWHYLVSWYGLEHGQPPIERKVIE LPNIQKVEVYPVELLLVRHNDLGKSHTV QFSHTDSIGLVLRTARERFLVEPQEDTRL WAKNSEGLDRLYDTHITVLDAALETGQ LIIMETRKKDGTWPSAQLHVMNNNMSE EDED
4091	12142	A	5022	1	1584	
4092	12143	A	5023	1	3519	
4093	12144	A	5024	3	673	
4094	12145	A	5025	3	2383	
4095	12146	A	5026	2	2348	
4096	12147	A	5027	1	7338	

4097	12148	A	5028	2	7106	KSKRQAQQMVPQSPVAVSQSKPGCYD NGKHYQINQQWERTYLG NVLVCTCYGG SRGFNCESKPEAEETCFDKYTGNTRYVG DTYERPKDSMIWDCTCIGAGRGRISCTIA NRCHEGGQSYKIGDTWRRPHETGGYML ECVCLGNGKGEWTCKPIAEKCFDHAAG TSYVVGETWEKPYQGWMMVDCTCLGE GSGRITCTSRNRCNDQDPRASYRIGDPW SNKVHRGNLLQCICTGNARGEWK CERH TSVQTTSS
4098	12149	A	5029	1	389	
4099	12150	A	503	318	449	ERKKKKMATVQKGM/PHKYHGHKTGS YNVIQHAVGNAVITNRTRGS
4100	12151	A	5030	2	554	ADALGRPTRPASQSRCTRSQSVGPSFG GGHRGE/SGRAYVWQPPYGSSE/HASGL RYWSRRLRPAAGSFAAVCSRVSASKTPV GFIGLGNMGNPMAKNLMKHGYPLIYD VFPDACEFQDAGEQVVS PADVAEKA DRIITMLPTSINAIEAYSGANGILKKVKK GSLIDSSTIDPAIVSKELA
4101	12152	A	5031	1	1123	MGNPMAKNLMKHGYPLIYDVFPDACK EFQDAGEQLCPNLDVNHFPVQRLHAAD TPWPISHLLAASVIGCCDIACLFSGRVSIS SLCVTISSQADEVRAKENKPIQHPTKIA EMLVVSSPADVAEKADRIITMLPTSINAI EAYSGANGILKKVKKGSLIDSSTIDPAV SKELAKEVEKMGAVFMDAPVSGGVGA ARSGNLTVMVGGVEDEFAAAQELLGC MGSNVVYCGAVGTGQAAKICNNMLLAI SMIGTAEAMNLGIK/S*GFDPKLLAKILN MSS\GRCWSK*HFINPVPVMDGVPSA N*LFRVDFGTTLHWLKDGLAQDSATST KSPILLGSLAHQIYRMMCAKGYSKKDFS SVFQFLREEET
4102	12153	B	5032	13	441	MEGVEEKKKEVPAVPETLKKKRRNFAE LKIKRLRKKFAQKMLRKARRKLIYEKAK HYHKEYRQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRXRGINGVSPKVRKVL QLRLRQIFNGTFVKLNKASINMLRDCR AIYCMG*
4103	12154	A	5033	1	775	RRVPAVPETLKKKRRNFAELKIKRLRK KFAQQMLARKARRKLIYEKAKHYHKEY RQMYRT*NF EWARMGKKKLANFYVPA EPQIWR FVIRIRG\NGVSPKGSERFFQL RLRQIFNGNLL*KLNQGF RFNMAEDF*S PYIAMGGTPNLKVS KMN*SYKRWLWAK SNKKR\IAL\TDNAL\IARSLGKIRHILAW DLIHEIYTV\GKRKF\EANNFLWPFKLSFS TKVEMKKKTTHFVEGGDAGNR\EDQIN RLIRRMN
4104	12155	A	5034	193	384	
4105	12156	A	5035	96	1636	ARSPAMAPLRPLLILALLAWVALADQES CKGRCTEGFNVDKKCQRDELCSYYQSC CTDYTAECKPQVTRGDVFTMPED EYTV YERLGEEKNNATVHEQVGGPSLTSDLQA QSKGNPEQTPVLKPEEEAPAEV GASKP EGIDSRPETLHPGRPQPPAEELCSGKPF DAFTDLKNGSLFAFRGQYCYELDEKAV RPGY PKLIRDVWGIEGPIDAAFTIRINLF RGRPYLFKG*\QYW/RAFEDGV LGPWYIY PRNISWTAFDGHSPGQTWDVAALGLPCP LAYSGRER\YFFQRGKQYW/ESYQFPG TSPVQEECEGSSLASAVFEHFAMMQRDS WEDIFELLFWGAERSGWVTR\QPQFHL AGEWHGVPG\QVD\AAMG\GRILHLQG MATRPLLWPKK\RFRRNRKGYRS\Q R\AHSRGR*PETPRRP\SRAMWLSFVLP EESNLGA\NNY\DDYRMDLALCLPTCEPI QECFFSFSGDKYYRVNLRTRRVDTVDP



						YPRSIAQYWLGCAPAGHL
4106	12157	C	5036	1	300	MRSFGQLTLCPRNGTVTGKWRGSHVVG LLTTLNFGDGPDRNKTRTFQATVLGSQM GLKGGAGSVWLQAAGLGLLPASLLWPS LLCHCYVLPAPGVPLV*
4107	12158	A	5037	359	1229	MPQPPTLGQEMTGPSQPWTGKGGLPGP* QLRAKAQEVDShLGRKKIKQQNRKSC
4108	12159	A	5038	2	311	VRWNSAAPLVTSRGAPASARPRGQALP GGSAPSAPHGQLPGRAQPAPVSGPPPTS GLCHFDPAAPWPPGLGLGMLPPHPQDW PAQP*HPPGLGLFFEIFSAS
4109	12160	A	5039	310	415	SQYFGTLRRVDHLRSGVDRDQPGQLGKTP S*PQVIHPPQCPKVLGLQYYHFLFLRRS L/DSVAQAGVQWRDLGSLQRPPPGFTPF SCLSLPSSWDYRRPPRLANFFVFSVETG FTVSARMVSI*PRDPPASASQSAGDTG VSQAPV
4110	12161	A	504	1	467	DHSSSPAREQNWMEFEDELTEVGFR WVITNSSELKKHVLTOCKEAKNLEKRLG ELLTRITSLEKNINDLMELKNTARELHEA YTSINSWINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMQLLQGVA EEGPLRLTRSASFSA
4111	12162	A	5040	1	114	ARAEMLIVQYILPRLTHCAIFTILFISLLT *VMLLSS
4112	12163	A	5041	335	477	TPASLKIPVE**NTLLAKMVISI*PRDLPA SASQSAGITGVSHRARC
4113	12164	A	5042	135	804	GIDTILTLNQN*SLKTRQ*FTLIIF/IFFFLL RWSLALSPRPDCGLQWRDLGSLQAPLPG FTPFSCLSLPSSWDYRCPPRPANFFCNFF FSRDGGFTVLARMVISI*PQ/CDPPTLAS QRAGVTGLSHCTRLFFF*WMESPSVTQA GIQWHDLGSLQPMPPQFR*FSWLSLPSSQ DYRCMPPCQANFCIFSRDEVSPC*PGWS GSPDLVIHLPWPPKVLGLHA
4114	12165	A	5043	63	361	
4115	12166	A	5044	151	384	
4116	12167	B	5045	385	479	MAGAFRRRFASEVRAQGLESLEHGLRC AGSLRGGQSLPTTMWSPVKVGE*
4117	12168	A	5046	3	698	VFFFFFFSGCTRGPLFESDFHRAPHRGCGQ LAAP*AAGAPQPRAPGETRGPEAPHWR SASGDKPPGQAA*PPALVPGEGPSWDSD PRGHRCSQATLPRVLAGPLQP*LS*LSL* DPPELRSL*PPL*LRL**SLEPP*PPLDS NRFPP*PRSPPLENPRPRPRPRKPRPP AEPPRYPTESVSDDLPAWSTRISVHLQTS HSWPSWASLASSMFFKVTKPNRELWSS
4118	12169	A	5047	138	550	FCCCFTSSEHSLLAYGSCSPRRTEVLCAQ QNPSETQAAPLASIYMWK*PCNSRLKGP GPGLGEGWPESRMTSGVTVPGGTSPGT RAGGS\PCPGLSPEALRQ*GAGSGPRVS PGA/PGCGAPAAAYGAASPCPQRCGAL

4119	12170	A	5048	2	555	FFFFFGLGAHVALYSNPTFTGLHIVVGKD WPPP*AAGAPQPRAPGETRGPEPAPHWR SASGDKPPGASGCLQLLFQGEVPPGDS*P QRSSLALRPPFPRVLGPGPFQPAKAKQR YSQRPPQGSQALAPP/GPPRKQPQLRKVS G*SGGCDLRLRHRPACGRVCTLAQLEP ATRMGWSYVGQCGL
4120	12171	A	5049	1246	1379	RCLFILSFFTGRRTHTP*PPLPLRTGFPP* PRSPPPSREPTGP/RPRPREESPGPRQ*PP RVPHGIGLSDDLPAWSYSGS/GRPSTGLPI /PWPSWHP*RRQCSQR*QTQIPEISGSPCL SQPPLQRSVRTLRPPAPATA/PLVSKLSPP TKSLPSSDAMRPLSRAGP*RKQEDSAPQ/ DPEPPRNRGPGN
4121	12172	A	505	1	1140	
4122	12173	A	5050	207	251	
4123	12174	A	5051	335	419	TFDFPNWRSYFMSNWTSLPTLLSSWD/ YRHVPLYPKICIFSRDRVLPYWP*SHD FTLFVSMITLTLQIYKMTKLDNYLETIYY
4124	12175	A	5052	68	399	WELLIYFSGHTCSNLSPLLSLSSFFFF*DS LAVSAPGVQ\WHDLCSLRPLPRFKRFW CLSLLSGWD\YRHVP\QYPAKICIFSRDRV LPILAKASRNVSFLTLNMLGGFS
4125	12176	A	5053	2	322	AAAAFFFF*DGACSVTRLECSGTITAHCN FRHLGSSNFPASTSRVVEITGTCHHT*LIF VFLVETGFHHVGQAGLELLT*VIHPPQS TKVLGLQVVSHCTRPLSDF
4126	12177	A	5054	16	357	TITIGQNFFFFFLEMGSCTVARLECSGIS AHCNKLKLGSSNLPTSTS*VAGTTGVCA TIPSYFYNKISM*NQSLPMLPSLGLELLG LRPVFLPRPPKVLGITRHEPPHSALK
4127	12178	A	5055	2	346	LRWSL/DSVAQGGVQWHDGSLQPPPPG FKRLSGLSLMSSWDYRRPPRLANFLHF **RRSFTMLARMVLIS*PHDPPASASQSA GITGVSDHAQSQIFLKLQMTKSMGFKTK FLN
4128	12179	A	5056	3	401	FFFWRQSLTLVTQAGVQ*LDHGSLOPPL PGPKGFSHLSPPSSWDHKHAPPHLANFF L*RHGFTM/RLVLTSLPQ/CDPPAAASQS AGITGVSHCAQPVIFCKKLDFSSTDIFTPS NLQPRGFWDLTAPQGEIVST
4129	12180	A	5057	142	250	PPTGSLLTPPLWDPQFASLFNGTL*WERE *PLPQNV
4130	12181	A	5058	2	775	RCNSAQQMTSSQKALMLELKSLOEEP VEGFRITLVDESILYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPSPPTFRFLTKM WHPNIYEEWEMYGISILHPPVDDPQSGE LPSEWNPQTQCEGLILLRC*SHWLNPE QHLSPPQMSDASVMFRKWERQ*REKTK EYGLKFIRETKFSAT*GPKAGKGWGV SPTNPGREYCIKTEVPARNDEQVQSLLYD ELGMMTDIDDER*GRRKDADICYDDDEF WGMRK
4131	12182	A	5059	1	571	ALGKAGYID/KYVTAMGIVAFVFFRSRK YNLDFRSRNDP/ARHI/TPEQLVALYKSF REKH*VFPD*GLVQRTFLSLVFLVCLKN/ SFDCCDDREVWKKFTANACLQEAGNDLT VNLRHIAEAVDENSECNFLQLTVD*ACK LIQSNW*GIMVSHYSLT*NTFIALVKHCT G*/INTGAPC*SEPLARYKELSF
4132	12183	A	506	1	2640	
4133	12184	A	5060	32	534	GRERPLSPYMETLYRVPFLVLECPNLK LKKPPWLHMPSAMTVYALVVVSYFLIT GGIYDVIVEPPSVGSMTEHGHQRPVAF LGLQSKMDNNGKGLCIQAS*FTMGGF RFS*ILDPIECTKYPKTSINDSFFCSIGISSV VLEFFPWARSNSMRNGNCPGLI

4134	12185	A	5061	1	328	FLKRQRFGLVAQAGL*WHNLGSLQPLPP GFK*FSCLSLLSSWDYRHLPPHPNFFLLF LVETGFYHFGQAGLKLTDSDGDPALAS QSAGIIGVSHRAGPGLCTFSNHI
4135	12186	A	5062	2	687	GRVGFNVWRDRNDTNLIPNGSSITVNQT NKRDIYVSKYINYIFNDSVKAVYEEFRRG FYKMCDEDIKLFHPEELKDVMLGNTD YDWENIEKNARYEPGYNSSHTIVMFW KAFHKLTLLEKKKFLVLTGTDRLOMK DLNNMKITFCCPESWNERDPIRALTC/YP VSLPSPKYSYNGNS*KKRFKKPINNR GIWLTSLPCPNLILLLSLLLLLLFLY FVLF
4136	12187	A	5063	1	525	ISHDAIAQESKRYWQNLEANVPGAQVLG NQIMPGFLNMKIKFVCRPQCPEKRSKSIE PDKNRKYCSAKARHSWTKDRRAMRV MSY*RRKWMNIRPLTKQMPLQFDLC NHASGKKCQYVGNCFAHSPEEREVWT YMKENGIQDMEQFYELWLKSQKNEKSE DIASQSNKEN
4137	12188	A	5064	735	1517	SYSYFFIQLCNHIASGKKCQYVGNCFA HSPEEREVWTYMKENGIQDMEQFYELW AQESKK*KK*RHRPVPSPNGKWKENQIH MANRIMAGRLQWDFSLAGMCGGKTGN SEKQWQGHISSEKHKEKVHTEITDQYC WQHRFPTGYFSICDRYMNGH/AAQEGNS CK/CLHMGNARTFMEWGRKGRRPLKV EASTKHKRDHLIGPKDNDFGKYSFLFK DLN*YAGFYGMIPNQSIDQKNLKCSEAH SRGAARFPACIGVYRSS
4138	12189	A	5065	237	381	LHQPTTQTLAFTSNLRGR*RSAALPDAL DSSKVSEMHRFLKRRGVN
4139	12190	A	5066	1	876	
4140	12191	A	5067	1	78	
4141	12192	A	5068	155	417	
4142	12193	B	5069	40	411	MQVTGVRTDSGALNITIHKLASSPHSKPF PIFQATFIFSDHIRCIAEQRLAKGRIPGKA HEDAENSCPPWTSQSSPPLKSWGLDAP PPPLSTCLSASTTRGAGAAATPQCSAPCL HRWTRCQ*
4143	12194	A	507	1	714	
4144	12195	A	5070	1	987	
4145	12196	A	5071	111	2187	DERRVGAADMFRSRSWVGGGHGKTS RNIHSLDHLKYLHVLTKNITTVEQNRN LLVETIRSITEILWGDQNDSSVDFLEK NMFVFFLNILRQKSGRYVCVQLLQTLNI LFENISHETSLYYLLSNYVNSIIVHKFDF SDEEIMAYYISFLKTLCLKLNNHTVHFFY NEHTNDFALYTEAKFFNHPESMVRIAV RTITLNVYKVDNQAMLHYIRDKTAVPYF SNLVWFIGSHVIELDDCVQTDDEHRNRG KLSDLVAEHLDDLHYLNDILIINCEFLND VLTDLHLLNRLFLPLYVYSLENQDKVFLII HHAPLVNSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNLQSLGH KCSSHLGGAQAAADSVTGEIPAIRSLEW LISAGSKARTFFFLKMLIGFWEKVDCEY QRRQVLSTRLQEAALPSNRLTDVAHVSS CMLGFGSTAPRGSWIGDPAAVHLPLPGE LAEHLGSKGTTTVTKHQPQAKPSIRCFIK PTETLERSLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAEEKAKGTE GGSKGIKTSGESEIEMVIMERSKLSLA ASTSVQEONTTDEEKSAATCSESTQWS RPFLDMVYHALDSPDDDYHALFVLCCL YAMSHNK/GKSPEKEGLSGTQSHPGKA GTFGKEGAERKRAQV

4146	12197	A	5072	2	2774	RNLLVETIRSITEILIWGDQNDSSVDFFL EKNMFVFFLNILRQKSGRYVCVQLLQTL NILFENISHETSLYYLLSNVNSIIVHKF DFSDEIMAYYISFLKTLCLKNNHTVHF FYNEHTNDFALYTEAIKFFNHPESMVRIA VRTITLNVYKVS LDNQA MLHYIRDKTAV PYFSNLVWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHL DHLHYLNDILINCEP LNDVLT D HLLNRLFLPLYVYSLEN
4147	12198	A	5073	2	1802	
4148	12199	A	5074	546	802	GQAGRARQVRSVPSSALITLPPLA*QKH G/ISR WV VIGDENY GEGS\ SREHA ALEPR HLGGRAITKSFARIHGELESVPRPSSSH
4149	12200	A	5075	3	2380	SLSVHKMAPYSLLVTRLQKALGVRQYH VASVLCQRAKVAMTHFEPNEYIHYDLLE KNINIVRKRLNRPLTSEKIVYGHLDPA SQEIERGKSYLR LRPDRVAMQDATAQM AMLQFISSGLSKVAVPSTIHC DLIEAQV GDEKDL RRAKDINQEVYNFLATAGDKY GVGFWS PGSGIHHQILENYAYPGVLLIGT DSHTPN GGGGLGICIGVGGADAVDVMA GIPWELKCPKVIGVKLTGSLSGWTSPKD VILKVAGILTVKGGTGAIVEYHGPVDS MSCTGMATICNMGAIEGATTSVFPYNHR MKKYLSKTGREDIANLADEFKDLVPDP GCHYDQLIEINLSELKPHINGPFTPDLAH PVAEVGKVAEKEGWPLDIRVGLIGSCTN SSYEDMGRSA AVAKQALAHGLKCKSQF TITPGSEQIRATIERDGYRQILRDLGGIVL ANACGPCIGQWDRKDIKKGEKNTIVTSY NRNFTGRNDANPETHAFVTSPEIVTALAI AGTLKFNPETNYLTGTDGKKFRLEAPDA DELPKGEFDPGQD TYQHPPKDSSGQHVD VSPTSQRLQLLEPFDKWDGKDLEDLQILI KVKGKCTTDHISAAGPWLFGRHLDNIS NNLLIGAINIENGKANSVGNAV TQEFGP VPD TARYYKKHGIRWV VIGDENY GEGS SREHA ALEPRHLGGRAITKSFARDPRD EPGRKQGLLPFGPFADPADYNKIHPVD KLTIQGLKDFTPG/RSPLKCIKHPNGTQ\ ETILLNHTFNETQIEWFRAGSALQQK*RN LQQ
4150	12201	A	5076	3	203	
4151	12202	A	5077	52	393	EASAWPAPRGSWMVVAEDPACSVTLCP ESLSGYLPGGSGQGSPAAGTSPSLPPRS LPGLEKL RSPSGRESRLSSSAPRAPSISAK AQLQCQAEEDPEIVNNV*FSSVTCLSL
4152	12203	C	5078	121	396	MALPGRLPHRKL AGGTLEAPWPGIPSGA VRRHQQPPTTLXXWL GKVKPLRKRIE AKFLCAEGPEHIRQGSAAVPGGGGRSRN CEQLI**
4153	12204	A	5079	3	755	FVVDFDRPHETRVLQVSCGRAHSLVLT REGVFSMGNN SYGQCGRKVVENEIYSES HTVHRMHDFDQVDQVACGQDHSFLT DKGKVYSCGWGADGQTGLGHYNITSSP TKLGGDLAGVNVIVATYGDCCLA VSA DGDIFGWGNLEYLQLA/APVTDSTQVN VPRCLHFSGVGKVRQ/CLHAVARAVQC* TGEHVFVWGYGILGK/GPNLSGKCPSL KMIPPTLFGFDGFQPRNP GPAPFRCGIQA TLLH
4154	12205	B	508	1	546	MKQPNRKRKLNMDSKERLDQDGRVLK MSFFVFCVVSSESEHEETQDLMCSELF WVLLHMWSLDQQHQHLEDHNSSPAR GQHWMESEDELTEVGFRRWVITNSSEL KEHALTQCKEAKNLEKRLDKLLTRIISLE KNINELMELKSTARELREAYTSINSQIDQ VEKGYQRLKINLMK*

4155	12206	A	5082	7	279	GQV CIAETGVQWYHLSSQLPLPGFKRF LCSASRRAPPCPANF*FLVEMGFHHVG QAGLQLLTLGDPPTSASQSAGITGVSHH ALPAWL
4156	12207	A	5083	5164	5586	FTAALNSWVIKLSSCFSLLSSWDCMYMP PCPASFFFFFLR*SFALVAQAGVQWCDL GSLPPPSGFERFSCGLPSSWDYRRPP/P TPG*FFFFVFLVEMGFHYVQAGLELLT SSDLPTSASQSAGITGVSHHALPSLYK
4157	12208	A	5084	2	5438	
4158	12209	A	5085	1	4294	WAVFDGNYYYLPAHTKPVVTLTSY WEDISHRLDAVNALLAMAERLQTNIEAL KSGIQGKIPANQLAELWLKLIDEVIEDTR YTLPLTEGKANVTVLDTQIRKLRSRSLSQ IHEAAVRMRSEATDVKSTLAEIEDWLDK LMQLTEEPQNSMPDIIIWMIRGEKRLAY ARIPAHQVLYSTGENASGKYCGKTQTI FLKYPQEKNNGPVVELRVNIWGLLSA VEKKFNSFAEGTFTVFAEMYENQALMF GKWG
4159	12210	A	5086	444	797	FHSLSPGASKPMLEPGLDWEPCCKLNDV KRAKSVPLTRHLH*VYLLMLSPPPTPQ QAPVYDVPLPVSKCSHCQPLWF*FAFL* WPVMMSVFSCVCWLHKCLLLRSVCSTP LPTF
4160	12211	A	5087	489	611	SPCPCLCPEWYCLGFLGFLWFLV*HLSL *SILNYFLYKV
4161	12212	A	5088	1	336	
4162	12213	A	5089	1	1581	
4163	12214	A	509	1	732	
4164	12215	A	5090	235	583	
4165	12216	A	5091	1	430	MGKDFMTKTPKAMATKAKIDKWDVIKL KSFCTAKETTIRVNRQPTWEKFFATYSS DKGLISRIHKELTQIYKKKTNNPIKKWAK DMNRHFSKEDIYAANKHMEKCPSSLAIK EMQIKTTMRYHLMPPVRMAIHKSGKNR WELNNENTWTQEGEHHTLGPVVGWVK GGGKALGDTPNVDELMAFSTTRPTFFP RSDPTTTRPMAVPPHEEKDDHLETHRPL RPRITLPHAPDGRWLLTLTHTSTPGKT GLRTYRCLSRTEKVQTAGARPSHPHSS AAFTTWAKGPTGRRPGHMRSESATQKE VTMSPTALRGQKADSKAHGQOGTWA ARGMHTESGTCKASRGFPSLLSPRTRIPK VFVAERKGLRGFVLSLTLFSCIQKHWE QTVPMSPLVEDVSE*TGNLQNGRNFLQP THLTKG*YPESTKNSHKFTRKKQTTPSKS GQRI*TDTSQKKTQMPTNTWKNAAHHH WPSKKCKSKPQ*DTT*CQLEWQSLKSQE KTGGN
4166	12217	A	5092	65	163	LEASKFSLVPTGPSV*CSPPCVHVFSLFNS HL
4167	12218	A	5093	175	495	PQFFGNVLGHLLYSFLGPFQCDENIRYLS *CSPSSCPCTNRPOYVMFSLCPCVLMV QLPPMSENMWCLVFCSCDSLRRMMVSS FIHVYPYRFCYCNLVVYFEVRCH
4168	12219	A	5094	67	351	LHTRKSVFNCVKLFLHCISVLINQLYDR PWCVMFPTLCPVFIVQFPMSSENMWCL VFCPCDTLLRMMVSSFIHVPPERHKS KH HDTRG*CSNM
4169	12220	A	5095	2	431	QVFGSIVRIHQGEWFPLLYGILLPRVQNC LTN*LDLCWSQHQTPhVLTHRWELNNE NTWTQEGEHHTLGPVVGWGEggGIALG DIPNVNDKLMGAAHQHDFLVSPKITGIV LSISQVRVPFIDHRRKARYSADLTSFLIAI PG
4170	12221	A	5096	75	173	

4171	12222	A	5097	1	2349	MLED RDGEEDEGDEDR LDNAV RGP GPK GPV GTVSEAQLARR LTKVKN SRRMLS N KPQDFQVATAWRSASLFNL YIAHLLAIA VMFQW TYSNGQWLNR PALNDFIPTAAL GLYNPTPVPI LGMTLGGSTQLVAPGIAQS CPGLVLAILIGEGNEATPEDPKDPTCWER LGNHPPSVLQIRVRVIEGRQLSGNNIRPV VKVHVCGQTHRTRIKRGNNPFFDEV LW LQPGDHTPASYSRAGLNDYHNCCKNKM QGVVLTHKWELNNENTWTQDGEHHTL GPVVGLWPQCLTDPEGFGEETWASTQPF AGVTCKALYLLHFTPTAIGSHCLDHCF S DFLGIKNYRKEKVGLRDLGICRRPGEGR LGKHILRNVLGDDAEALIGTATVALKD LTGDQSRSLPYKLISLLNEKGQDTGIYNC ELENVAEFEGLTDFSDTFKLYRGKSDEN EDPSVVGEFKGKLQMWVDVFPKSLGPP GPPFNITPRKAKKYLRVHWN TKDVILA EKSITGEEMSDIYVKGWIPGNEENKQKT DVHYRSLDGEGNFNWRFVFPFDYLP AE QLCIVAKKEHFWSIDQTEFRIPPRLLIQIW DNDKFSLDDYLGFP RNLT LRHTIHFLO KSPGGNC/RGLDMISGTFKAMNPLKAKT AFLFEQKFMN*WWPCYAEKD GARVMA GKVEMTLEILNEKEADERPAGKGRDEPN MNPKLDLPNRPETSFLWFTNPCKTMKF IVWRGFWWVII GLLFL LLLFVGRAPLT LLPNYFVQWKIVKPNVLTGKG FISRVIQ Q
4172	12223	A	5098	1	296	RRSAPSTSLRTTCVSSCCWPRRRAPSMT P GAGYPSGSSAGP/PTHSP*PPWTRPS/SAQ RYLRK*QPQPGPPALLPLLPAPFKAWLS GLGPVVLDS PGQ
4173	12224	A	5099	26	253	RWLSWPWL/SCPQPGWTARNPQPTRELPP HPQAGKPFPLPVVPFQPTSPSLLPVMGGL SRPGSFSPVSVASLRCC TH
4174	12225	A	51	702	1107	LQERYSDPGLLASFHGESSQDR LDTVQQ EK*NAGSASPPGPPHPN TCQPRDGRGFT RLPCHRMWGTGIRWK MPLQ* AAGP PH AA*WPGSLMPPCL*PSASAWTRQQ**PG SLPTLTSPG*DPGAHILLWRKQSY
4175	12226	A	510	2	1601	
4176	12227	A	5100	274	2462	RRSAPSTSLRTTCVSSCCWPRRRAPSMT P GAGYPSGSSAAHHRCDGWATTHSP*PP WTRPSWRSAYLRK*QPQPGPTQHCCPLP SQPPAKGVAVRAGPCSAGLSRATIGTGQ G/PG/TSPGHTWGQORYHEATFWG*LLD CLVFKSEKPR*LILLITMF*STSVSLTML SLD*ARGRREPAHPTPGPSPAATN*PGAL LPTVQIS*KCSSLQAPERASPPPCSPR/PPA TASFRPSLSDPGPS/APSFGKPSPHLKPN S NIFIFLPYQLLSHL*VAQSMATPCPQPGW TARNPQPTRELPPHPQAGKPLLPVPVPFQ PTSPSLLPVMGGLSRPGSALPSQWLL*G AVHAR*PVPFSILPRGTEL TWTPSAKGPM GWAAGLAASGGCLHSSR*PTLVFRGWW EHIPVPLPHNRCGDSGRP*QGSSMVVR DSGEL*GLGDPGLPGFENKPCPF*AEIL KWNARLARNAVLTQNAPSPCPYWTWP CLMP SKDPYPEAYPPYVLREAECLQAV MGPEAPPAPWPCSPVG/SVTVFP/TSVSRSP PPKKLTHCE*PWAS/SPNLLVPQFPHEK MGPP LASSRAAHAPFSP/SPHPALGR LM PLPQWALWEPTGSPALTPPEASEACVMS QLSSR*GPRVLCWWGWGMP SFLYLFHR KSPAGAEMQSGGLPSP*PVLL*GPEAGP GPVAAEPPSQEVKLVPSGRLPVRGLSPSF QSNRRGLQSPVRQTGPPFKVKPCV

4177	12228	A	5101	1	545	DFPRQSS*NLNITGKCGISP/GTPLNA\AHF VPGQY/VDVTTKTMCKGFQGVMMKRWG LKAQ\ATHGQSKSTGRPGA\ATGDIGR VWPGTKMPGKWGNIRQYGLKVWRI NTKPP\IYVKWSGPGP*KWLR*RSKDFK LPA\FKDLGKNLP\PIYIFFLEGDEGGTAQ KIGMDEKRVSSPGAPSN
4178	12229	A	5102	2	202	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWI\QLCCI*KMKYY SDFKKSCQAMK
4179	12230	A	5103	1	422	FFFFFLRWSFTLVA*A*VQWRDLNSLQPP PPRFKRFSCSLPSSWDYRRASPCSANFL DF/HFLVETRFFHVVCQAGLELLMSGDLP ASASQSAGIIGVSHCARPLASFLIHIFNK CISGVRLCSRWPWRYSAQAQSLDLAY
4180	12231	A	5104	2	375	DGSCFVAQTGVQVWHNLGSLQPLPPRFK* FSCSLPSSWDLRQVPPPHANF*FLV*P GFHDVGQAGLELLTSGDPPTLATRSVGIT GVSHCARPGSIYKQRLDKKLRSVAART NRCPLWSLPI
4181	12232	A	5105	1	293	RRLFFSFLRQSLVLVIQAGVQWGDLSL RPLPAGFKRFSCSLPSG*DYRHGPPRLA NFWIFTREGM/FAMLARLVSNS*PQGDPP ASASQSSGDYRA
4182	12233	A	5106	3	305	ETETCSVAQAGVQWPILSSLQPLPPRLKR FSCSLLSNSWDYRCLPPHAANF*FLVET GFPHVGQSGLKLLTSGDLPTSGSQSAGIT GVSHCTWAGKSYIF
4183	12234	A	5107	1	485	ARRDAAEVFLVSDPSGRMVKFSLQRLN SHCFAREKEGDKPSATIHASRTMPLLSLH SRGGSSSE/SDDRLNVTEELTSNDKTRIL NVQSRLTDAKRINWRTVLSGGSLEYIEIPG GALPEGSKDSFAVLLEFAEEQLRADHVF CFHKNREDRAALLRTFSFL
4184	12235	A	5108	1	506	FGVSVYLHDYNMRTNPGEMSESTVPTH PADKGWPQGPDAQPRGGPTPPPLPKTLS RTCRPMKQASGLLGTGCPGLTISKPKK LKVRSKAAAGEKPSEPLPTRTPRPHPPP QGDRAACGLRMKGRRRHPHAPYCRRYGS PTSVLAVLVEANEDMVGSQLLSELQEN WQAVLAPLQRAARDLDVEAAATQHCS PM\WRTVLSGGSLEYIEIPGGALPEGSKDS LPVLLEFAEEQLRADHVFICFHKNREDR GR*PVSPAVGCVGVPAPPLHSQPAGTVS LRGWGVVRAAGSGRQGF*RLLPRAALLR TFSFLGFEIVRPGHPLVPKRPDACFMAY TFERESSGEEEE
4185	12236	A	5109	1	996	MVKSSLQRLNSHCFAREKEGDKPSATH ASRTMPLLSLHSGGSSSESVWMARD APGEAAH/CRRHPG/PSPRGPPGSWGWR TPTARQRPKTPAASREDASRFRGRGCQ LRLWGS/HAGSRSSFPDCVPRGGRRSAP DREDDRLNVNRGN*RSNRQDGGFFNVQ\ SRL\TEAQ\TALNWRNNC*SGGSLEFNKPA GRRWPPEGSKGQLLQFLLEFAE/EKQLR ADHVFI\CSHKNREDRSLAPKLSAFLG LKILRPGHPLVPKETPDACFMALQRSRE SLPGEEEEVGARLRGWAIPPPWGHFVS RVGRNRRLAHLAWVCPHVIVQINAH S Q
4186	12237	A	511	1374	2220	QAENSHININKKD\HSETPSEGHQKRKP KDHSSSPAREQNWMEFDELTEVGFR RWVITNSSELKKHVLTQCKEAKNLEKRL GELLTRITSLEKNINDLMELKNTARELHE AYTSINSWINQAEERLSEIEDQLNEIKRE DKITEKMKNSTTVLVSTWGSQLEQNNLP HIISPLFHSTHDLNISFYGGCLLQACSSKL LQGLAEGGPLRLTRSASFFAAKLCLTKH FLPTMILIKSRKTPDTQPRRLYLLQGV

						VDQTSRKGPALNIRQKTFAAAPPHR
4187	12238	A	5110	1	125	FFFEMESHSVIRLECSGVNSAYCNL/TLP GSSGSPASAPPPQVGTTGTHHHAQLIFV FLVETGFHHVGQDGLDLL/NLVIRPPQPP KVLG*QAVLLPQHRPPK
4188	12239	A	5111	2	280	FFFFGDRVPLHSAAQAGVKWCNLGSLQ PPAP/GLKPFSLSLPSS*DYRSLPPCPTHF CIFSRDEVSPSWPGWSPTPDLMNHPPRPP KVLGIQV
4189	12240	A	5112	2	291	FLEMESHVAQAGVQWRDLGSLQPPPP GFKRFSCLSFPSWDYRRPQPRPA/NFFV FLVETGF/TILARLVNS*PRDPPASASQS AGITGVTYRARP
4190	12241	A	5113	3	690	FFFFFLRQSL/DSVTQAEVQW/RRILGSLR P/LQLPGLK*CCCLSLSS*DYSYNPLPRL ANFF/VFCIF**RRGFTMLARLLSNS*PCD LPTSASQSAGITGVSH/HAPGLASPSLNN KVQSSVGAQRRHEDDNGSRA*VFFCFFF FKRFALVA*AGVQWRDLSSLQPLPLRFM *FSCLSLPSS*DHRCVPPHPANFFVFI*RD. GVSPCQPG*SRSPDLAIRPPRPPKVLGLQ A
4191	12242	A	5114	3	282	FFFETESHSLSPRLECNGTISAHCNLR PGPRDCPASAS*VAGITGVCHHAWLIFVF LVETGFHHVGQAGLELL/NLVIRLPQPPK VLGLQA
4192	12243	A	5115	3	198	LSLNWCILYIYICIYVV/CVVLFCCHSCLS NMGT*FFLAGLLLFRICLCLFIFYFLL***L LFIMI
4193	12244	A	5116	1	854	MNKLFSILLGEKVDTPQNVLHNDPHARH SDDNGQNHLEGQMNFNADSSQFKDENT DIAEKLEEKVRILCWVMTGPQANLEKKA KHVKATWAQRCNKVLFMSSEENKDFPA VGLKTKEGRDQLYWKTIFQYVHEHY L*DADWFLKADDDTYVILDNLRWLLSK YDPEEPIYFGRRFKPYVKQGYMSGGAG YVLTREPLKRFDALKTVKCTHSSSIED LALGRCEIMNVEAGDSRDTIGKGNFFH PFV\PEVHFNLKGYLPRTFWYWNYY P\PEVGPGLL
4194	12245	A	5117	13	290	ECRRQRGVQ*CNHS*QQL*PPGLMQSSL LSSPGSSDYRQVLLHSAEF*VFNLVEMG SYYVVQAGLKFLASSDPFALTSQWARIT GMSHITRA
4195	12246	A	5118	1	595	MGIHHVGQASLELLTSGDLPASASQGRG VRLYYNEGRSSQSASVTALFLSSLPTVTS AMAGTRPPSARSHQTLQACRAQKTKTR MSSI*GTGAKHQASSPGKAPLSTPSPYFW KPSLQTPCSGSRSLWASLPSLAALFLC FWQDAT*RSSTTRSSLPSWPSRSTRALRL STS*PECAPSA*ASSKAGERSTGDRL
4196	12247	A	5119	3	496	FFFLRCSV/NSTAKAGVQCHNLSSLHPLP PGFKQFPFSLPSS*DYGCAPPHANFYIP SRISQAWWRVPVIPATQEARQSFNFVAQ VGVQWHNLSSPAFPAGFK*FSCLSLPTS WDYRHMPPCPDNFCIFSRGGVSPYWPS WSRTLDIMIHIPPPNVLGLQA



4197	12248	B	512	1	765	MLAGQQREFFVGVGSADPALGAAGWP QRPGQARDLQLAMPEPPIPSMGSCAAGA SPTSTAPCSKAPSPIDHPRAAECRRRARD WQAAPPAAPVRDPLGEASRAPESVKDV CIYDIMFDGGAGRFAAATLGTISELPAFP EERKSWKPKRQAPGALV*
4198	12249	A	5120	3	329	ETVSHSVAQAGVHWHVGSQQPPSPGS KQFSNLSLPGGWYDRHPPHPANFIFLV ETGSHYVAKADLQLLASNDPPTSASQHA GIIGRSHCTRPRY*WSNKL*YKIT
4199	12250	A	5121	1	537	ERQSCSVARAGVQWHDLGSPQP/LPPRL KRFS\CLNLLSSWDYRRALPHPG*FLYF* *RQGFTMLVRL/VLNS*PCDPPTSASQSA GITGVSHRARPVLR*QNYYYFETGSGS AAQAGMQWPIMAMQPQPRLKQASNL SLLSSWDH\GMQPHANTTVCKTERKQV FRMHLLNNTNYREQ
4200	12251	A	5122	1	197	EAGSHSVAHAGEQWCDYGSLLQHQPVPV LKQFSLSLPSS*DYRCVPPCPANFLIILM ISVSIRGSV
4201	12252	A	5123	809	1472	KTLLSCYLSKLWPVDYLRSSRLRRRAA SSFGSWRFALQRTPHTRRLSRSSKAVQ TAFPRRSPSSRHRCGSSSRATTTCRMSFL SSLTTCAQQLAGWVTLKRSIGLRKRSM LMALKKWPCLMWKKRRSLPRYPQPQRT RGKKRSGSKIMIRRLNGQMGPRTVPAPA MKEVQI/TKLKSKRRSCSHCSKVCDS KS/VQEQGAP*VGGQOPPPRG*SYAWC
4202	12253	A	5124	1	504	DSEPCSVAQAGEQ*RDLSLQPLSLGLK QFSLCLPSSRDYRRPPCLANFCYF*YR WGFTTSARPV*NSWPCDPPTSASQSAGT TGVSHQA\RLLLFFKAFKVWSGDSI*CVN EFNIISKISSFPHFTSTPQSCPIHMSQIKY K*F*DYP*CSKQAGGISIDTY
4203	12254	A	5125	2	351	KQGIIMTYVLRPPFFSRWSLDSVSQAG VQWRVFGSLQAPPGFLPFSGTG/RQPPS PANFFLYFLVETGFLF**RQGFTVLDPMV SIS*PRDPPALASQSAGITGVSPRTRQEGH S
4204	12255	A	5126	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHPHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYKISMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTGVGDGTL KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSKGGAALITAVGVRLEASS
4205	12256	A	5127	116	498	YNFALKSELKFNQAIVSLNKKFFFFFLR WSLRPVAQAGVQWRDLGSLQ/PPPPGLT PSSCLSLPSSWNRPPPPCPAKSFWIF/M* RRGFTVLARMVVIS*PRDLPASASQSAGI TGVSHRTRQEGHS
4206	12257	A	5128	3	490	GIYHTLRTGQEGRSIKQQRLLQRPYPF FLFIFPSFLYMIEIKH*LSFYILLFAFNIVS* PFSYFIFFF/RF*DSVLLCGPGWSTVA*S*L TAASTSDQGDSPSTGPKVTDRVCVGH T*ANFYIFCGGWGGLTILLRRIPNSWAQG IFPPWPPKVLGLQA
4207	12258	A	5129	423	495	
4208	12259	A	513	594	1300	LGASEPWQPRSQETPKHSWSPSPH/PANQS KEVPENPNYALKCTLVGHTEAVSSVKFS PN/CENGLASSADRLIIHWGAYDGKYEK TLYGHNLEISDVAWSSDSSRLVSASDDK TLKLWDVRSKCLKTLKGHSNYVFCCN FNPPSNLIISGSFDETVKIWEVKTKCLK TLAHSDPVSAVHFNCSGLIVSGSYDGL CPIWDAASGQCKTLVDDDDNBPVSEVKE

						CRIWDAASGQCLKTLVDDDNPPVSFVKF SPNGKYILTAT
4209	12260	C	5130	628	849	MCGSVYSTIWSLIASRRREETIRVIVLYIQS PNINTRHISKRGLNKGVNQFHKEWNL KRVCSHSGAEAGIFS*
4210	12261	A	5131	350	412	NFELKLSPYQKKSIVWGAAQVMPVAVG KPSSEWPPGSHMDNSQIRGNPVCIGIK*FS CPSLQCSWDYRCMTPLANLFFFKLEGG FCHVAQTSCLKLLGSSSPFILASRSTGITG MNHHA\RQLLN*SIRE*HSITHRLTHSRE KSCECNLYGKTLSSNFPPTKKKVSTGELP R
4211	12262	A	5132	3	189	HERKAQPAGEGRTHMTKSDSLPSFRVST LPLESHHPDPNTMGGASHRDRALSGTAT VRDTRGIDPAPVHASPTRNR\NEGRHVF KRFPDTLTDRSISYTDHSLQIRTLRALS QL*TIPTQTPWAGPATGTGLSRGLPPYG TPEG
4212	12263	A	5133	32	800	FKTIKVRFLCIRVYSLCCKLLTYCDHFH SLDFEECAHKLKMEFPESQTKELCNMI LDCCAQQRTEYKFFGLLAGRFCMLKKE YMESFEGIFKEQYDTHRLETNKLRNVA KMFAHLLYTDSLWVLECIKLESETTTS SSR\FVKIFFQELCEYMGLF*/SLIARLKD GNLAPFF*RI\FPRDDPRITRVAISFFPSIA SGCLTYCPVSALSSIPLRPLVALLPIPIF HHDLLLELFRLPFFYNDTLVLPFV
4213	12264	A	5134	2	706	RCNSAQQMTSSQKALMLEKSLQEEP VEGFRITLVDESILYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPYSPPY/TRFLTKM WHPNIYENGDCISILHPPVDDPQSGEL PSERWNPTQQCEGLILLRC*SHWLNBPQ HLSQPMSDASVMFRKWRDSKGKDKKE YGLKFIRETKFSATKARRQEKGG*RF TTLGGNTCIKTEVPARNDEQVQSLLYDEL GMMTDIDDER*GRRKDAD\CYDD\DDSG E*GSPQPWAGIPASKLRCPNDEQVQSL LYDELGMMTDIDDER
4214	12265	A	5135	7	219	EGV*VSRDW*QWS/DIGSWRHSMTGSGD SLASAF*VSGGTGESHHKQLIAVNMVEM GSHRAGQAGNELSTL
4215	12266	A	5136	2	309	DGVSLLLSPRLQWHNLGLLQPPPP*FKGF SCLSLPGSWDYRHV/PPCLANFVFLVETG FRHVGQTGLELLTSGDPPASASQRAGIT GVSHRTWQKMYFLSQYF
4216	12267	A	5137	1	309	SCLSLSSWDHRRVPAHPANFVFLVETG FHHVSQV/GLELLTSSNPPASASHSAGIT GVNHRAWLPGLNLR*KMIIIRLRRLK NKFHSTILRKSETSNSCE
4217	12268	A	5138	2	625	TYGEMAKIVDVPTKQLRAPDPIDSMCH FCHNVSPCTRNGCVDMEHFVKIKTHQI EDERERREKKLYFGYSLGAHPILNQITIG RMQRATEGRKEELFALYSAHDVTLSPVL SALGLSEARFPRFAARLIFELWQDREKPS *TFVIRILYNGVDVTFHTSFCQDHHKRSS KPMFPLENLVRFVKRDMFLALGGSCIN YYDACHREGF
4218	12269	A	5139	167	688	
4219	12270	A	514	188	478	QRGVLLKTANVLVPEDLGREMRIFFSVK TWKTFTCIFTKGTNIHLFLYFFFETASLS EAQAGALGSLQPPPPGGSSDPASASPI AGITGACHH

4220	12271	A	5140	3	1230	QRDSYAREFTTTVVSCCSAELQT/GEGAT ARNIFLSGFQVVLEDTVLFPEGGGQDD RGTINDISVLRVTRRGEQADHFTQTPLDP GSQVLVRVDWERRFDHMQQHSGQHLIT VAVADHLFKLETTSWEVGRFRSAIELDTP SMTAEQVAAIEQSVNEKIRDRLPVNVRE LSLDDPEVEQVSGRGLPDDHAGPIRVVN IEGVDSNMCCGTHVSNLSDLQVV*VLGT EKGKKNRTNLIFLSGNRVLKWEMERSHG TEKALTGLLKCGAEDHVEAVKKLQNST KILQKNNLKSQAQ/RT*AVHIAHSLKEQSR LGRCGHITQEGG*FRVHEYHCQ*RLGQR RPSLFLTCCR*ERWWTLLYWQGHRLW RPWGPWGLRSWEGKGAGKKGRFQGKA TKLSRRMEAAQALSPGLHQAEC
4221	12272	A	5141	3	306	SRQWTLFADGQHSGPAAPCPGGEV*RTG ALNPKTFQG/LPSAPGPCPVPHGASHP*T PQKLQPGNKSQMKPVKPGFPPSGAGGA WASL*PSSLPPFDLQYLL
4222	12273	A	5142	1	306	FFFFFL*RQSCSVAQAGVQWYDPGSQKP PPPRFERFSCLNLPSS*DYRRPPSLPAIFV FLVETGFHHIGQDSLKLLASSDLPISASQS AGITGMSHCTWPV
4223	12274	A	5143	81	657	TAEGGGEETKSGELGRSQRTLISQVGATR GTSEEITLIVQMRDAGGSALCSGIGGGEK WSVLGVILKKDDRIVLAYCMGHEIKRGI EDDSKVFFFFFLEMKSCSVVQAGVQWH DLSSLQPALPRYK*FSCLSLPGSWDYRH VLLRLVNF*FLVEIGFHHVVQAGLKLLT SSDLPHSASRSAGITGVSHRARG
4224	12275	A	5144	3	494	ETEDLALSPQAGVHVAR/SLSSLQPPPPG VFKQILCLSLSSWDYRG/PCHPHPAKFL AF*VETGVSPSWAR/LFLNS*PRDPPASAS QSAGEPPRWASVCNSVKMLSSAFNWCV CRLHKEKWMRRQK'THTVMIPHSNRCSS RHFSRIPSSIETYNNLRHTLLAGRF
4225	12276	A	5145	3	123	ESGSHSLPKL*CSGAITAHCNLKLGSR DPPTSASGVAGT
4226	12277	A	5146	3	292	RQRL/NSVTHSGVQWRNPGSLQPLPPGF KHFSCLSLSSWDYRHTPCPAIFVFLV ETGFRHARLVSNS*PHNLPVSASQ/SAWI TGLSHHARPCVSF
4227	12278	A	5147	2	303	FLGWSFTLVVQAGVQWRDLGSPHPLPP GFKQFFCLSLPSS*DYRHAPPHLANFVFL GEMDFLHAWQAGLELLTSGDPPTLASQ SAGITGVRHCSRVPSE
4228	12279	A	5148	2	613	PRVRTYRFGSVGHDQTLCLWDLTEDILF PHQPLSRARTHNTVMNATSPAGSNGNS VTTPGNSVPPPLPRNSLPHSAVSNAGSK SSVMDGAIASGVSKFATLSLHDKRKEAP RERSQSRNHSMGHNF*QEASDKLESS/SP KPKPDPAKTLGTPLCPRMEDVPLLEPLIC KKIAHERLTVLIFLEDICVTACQEGFICT WGRPG
4229	12280	A	5149	2	393	IGFQPQLTEFQVSLQDLEKLSGLVFFPHL DRTSDIRNICSVDTCCKLLDFQFTLYLST RKIEGARSVLRDLKIMDHLKNV*NEPYD YPMRRYYKKLQELTAIDLSTHISQPSLL SYTTCLISGATPPFT
4230	12281	A	515	355	612	SFSISGSFSASIALVCQLLAVKGSVFEVG GISYCPLNVFLDLQVAPEEDERKKRRR ERNKIAAAKCRNKKKEKTECLQKVSFAF
4231	12282	A	5150	644	962	NASSLAWTVLLKLLVGFGAGQCMGNFF FCWGGAMESPSVAQAGVQWRNLGSLQ PPPPGFKRFSCLSFPSSWDYRHVPPHPAN FICFSRDGVSRCWPGWS*TPDLR

4232	12283	A	5151	3	321	RRCLCAGYFKNVARRSCWRTFCTMDGR GSPVHHPSSALHEQETKLEWIFHEVLV TTKVYARIVCPIRYEWVRDLLPKLHEFN AHGFEQCGPT*SERRCKKEMDK
4233	12284	A	5152	237	602	LLITGRQYSLTFRFYIHLRNKILNSGLG KPPLKLHFYTEAFFARNPDQMEFHSVAQ AGVQWHDLG*LQPLPAGFKQFFCLRFLS SWDYK\GTPPCLAGFCIFSRDEVSPRWGR WS*TPDLK
4234	12285	C	5153	166	417	
4235	12286	A	5154	282	1112	FLKRENLLKNVCRNKLDLRPNRASPTGS QEWQRHGVQSEVQFVHSLKPGPPADS CRTAA/GDPGGTETADPGHTGLELRFPEP PKPTLPLALSEAPVP/PERGENTGPRSLPS TPMPSWGPLLSSPPRATSPTSPSQAN*PP PPRPSSHPTTVPPTRPQPWQPGCCAQPP RPCLH*RGGN*VY*GMQLHQKSVSWPH SQWPQKREGNGSSHEIHPSCPPSGFHGGS PEGRMPTQAGALHSWVPGLSLSHGSGP HPPPRWTATVQAARPRVPLTNL
4236	12287	A	5155	69	734	SRLGRDHVGPGLGGVG/VRR/RENDIGEY EGGRNEAGERHGRGRARLPNGDTYEGS YEFGRHGGQGIYKFKNGAR YIGEYVRN KKHGGQGTFTYPDGSRYEGEWANDLRHG HGVYYYINNDTYTGEWFAHQRHGGQGT LYAETGSKYVGTWVNGQEGTAEIHL NHR YQGKFLNKNPVGP/AKVCI*CWV*T TW*ISFNRYGKRRRGRGGRISNCCSKME SYPNH
4237	12288	A	5156	4	674	GVQRGHFQEAKGSGRCLSSLNVPHPSPP SAGMDPSSPVNPPEEAGGPLAQVPSAAL AQVAPGPVPISSLLEGPTVPSLPF*ERGNSS HKQASGPERGARPPALLGPQEIGSSK/Y PPPGPGSTLGKLLASPRCGPPQVLGWS LRDPTRLEEGPWGSL/GNTPREPSIKCSP* MGRMGAQPLPKAEGAPPPTQLPPTHSPR RILGPLGASPERPPPRVPPGEG
4238	12289	A	5157	3	342	NFFFLRQSF/NSVTQAGVQWRDLGSLQP LPSGFTPFSCLSLLSSWDYRHPPHPANF LYF**RRGFTLLARMVLIS*PHDPPTSASQ SAGITGVSHGAWPKSIFFLNAEVMYY
4239	12290	A	5158	1	251	VCVCGFCFVLETESRSVTQAGLQRHHL SLQPPPPGFGFSCSLSPSSWDYRCPPPR LANF*FLVEMGFHHVGQAGLKLVA PPASVSQSAEMTGVSHHALPG*SRSVTQ AGLQRHHLCSLQPPPPGFGFSCSLSPSS WDYRCPPPRLANFCIFSRDGVSPRWSGW SQTRGLK
4240	12291	C	5159	24	362	MGITVFRXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXS*
4241	12292	A	516	3	853	SQARTAQSSLAAARAHPSARAPAVSPR CSPAGQTNPPDPVPTLAAPSGAWSKM MLQHPGQVSASEVSASAIVPCLSPGSLV FEDFANLTPFVKEELRFAIQNKHLCHRM SSALESVTVSDRPLGVSITKA EVAPEEDE RKKVRRRERNKIAAAKCRNKKKEKTEC LQLQY*QSHRPPLWHHQGFSEEGHFP KPSAALPSIFLSQLDEPRCVQSEKLES VNAELKAQIEELKNEQHLYMLNLNHRP TCIVRAQNGRTPEDERNLFQIQIKEGTLQ S
4242	12293	A	5160	1	287	FFFF*DIRVSAQSPRLECSGAILAHCNLCL PGSSDSCASTSPVAGITGMCHHTQLIFFV FLVETGVHHVGRAGLELRLQVIHPPQP PKVLGLQA

4243	12294	A	5161	1	1672	QTGLQATTKHSGFPVRMDNAVPIVQAP AAQPLQIQSGVLTQGSCTPLMVATLHPQ VATITPQYAVPFTLSAAGRPAVEQDC RCTAGVAWKGLKQILLPSNFGQQLAWG *ALHNSVQPTAMIEAMGSGQQLADWR NAHSHGNQYSTIMQQPSLLTNHVTLATA QPLNVGVAHVVRQQSSSLPSKRKNQIS APVSSKSSLDVLPQVYSLVGSSPLRTTS SYNSLVPVQDQHQPIIPDTPSPPVSVITI RSDTDEEEDNKYKPSSSLKPRSNVISYV TVNDSPDSDSSLSPYSTDTLSALRGNSG SVLEGPRVVADGTGTRTIVPLKTQLG DCTVATQASGLLSNKTTPVASVSGQSSG CCITPTGYRAQRGGTSAAPLNLSONQQ SSAAPTQERSSNPAPRRQQAFAVAPLSQA PYTFQHGSPHSTGHPLAPAPAHLP SQ AHLTYTAAPTSAAALGSTSSIAHLFSPQG SSRHAAA YTHPSTLVHQVPVSVGPSLL TSASVAPAQYQ\QQVATQ\SYIGSFRGST IYTGYP LSPTKISQYCYL
4244	12295	A	5162	1	111	ELRYKRWPGWKADTPQAQ\TVKWVGV GKSRESMIQLF
4245	12296	A	5163	2	1034	DRAHLVDFDHQAVDGLQEVQRQAQEGK NIGTTKKGIGPTYSSKAARTGLRICDLLS DFDEFSSRFKNLAHQHQSMPFTEIDIEG QLKRLKGFAERIRPMVRDGVYFMYEAL HGPPKKILVEGANAALLDIDFGTYPFVTS SNCTVGGVCTGLGIPPQNGIDVYGVVKA YTTRVGIGAFPTEQINEIGLLQTRGHEW GVTTGRKRRCG\WLGSMILRYAHMVNG FTALALTKLDIL\DLGEVKVGVSYKLN GK\RIPYFPG*PGRCFKKGRKLKYETLPG WK\ADTTGRPGRWEDLPPQAQ\TYIRFVE NHVGSRSYHYQSFL\SVVKWVGVGQ VQESPMIQLF
4246	12297	A	5164	3	148	LLSSRDHRHVPPHPANFFCRD\RGLAMLP RLALNSWA*AIHPPWPPKVL
4247	12298	A	5165	3	325	YVFSGDLAQILNVSLGIRRLHLADVSV GICLAKLRIAPVPPHNESVFNRWRCPYS SCSY\HHLITSHQFQPSELIKYWNHLQHN KHNAACANAA*EKAGMYRHRLH
4248	12299	A	5166	373	950	SRGVFFFLRQSFTLVA*AGVQWCDLGS QLPPRFKQFSCPASLVSWDYRHAPHP ANFFIFLVEDKGFSMLVRLGLELPTSGDL PASASQSPGITGVSHHARP*MILFIFMFSF GRRDGVSVTQAGVQWHDLSLQASPSG FMPFSCLSLPSSWDYRHV*PCQANFLYF* *ANLSRVSPCWGWSRTPNLK
4249	12300	A	5167	2	334	VRHRFTLVPQAGVQ*CSLG*QQSPPWF KQFSCLSLPRSWDYRHLPPHPANFFVF/V EKTGFHHVGQAGLELLTSVDPASASQS AGLTGLSHHAQLSFNLSAKKSFTKTRS
4250	12301	A	5168	35	437	
4251	12302	A	5169	1	1845	
4252	12303	A	5170	1	212	
4253	12304	A	5171	371	915	
4254	12305	A	5172	1	2460	
4255	12306	A	5173	1	933	LESMIGIDPGNRGIGHLLCKDELLKASLS LSHARSVLITTGFP\THFNHEPPEETDGP GAVALVAF\LA\GRRSP*SLTREPVLH QKIVEDA\LSKV*RRRSRY*LT\KVDQW KLLRHSCAKIGDPQTLRF\DLVAIERAG RAADGNYYNARKMEHQAL\RLTPFDDL FLASAKKIPGISS\UGVGDGNGELGMGKV EA/DEEAHTARGCHRLATWKA\EF\AVIAG VSNWGGYALACALYILYSCAVHSQYLR KAVGPSRAPGRFRPGLRPSRRSLRKKKC

						WASWCSTKSGVASRASWAWRWMGCPSTTTPR
4256	12307	A	5177	1	439	
4257	12308	A	5178	1	552	GNEFSILKSPGSVVFRNGNWPPIGERIPD VAALSMGFSVKEDLSWPGLA VGNLFHR PRGYPSWVMVKGSGTKLALTPQAVVIS YPLENRVYVMVGKANSVFEDLSVTLRQ LRNRLFQENSVLSSLPLNSLSRNNEVDLL FLSELQVLHDISSLLSRHKLAKDHSPDL YSLELAGLDEIGKRY
4258	12309	A	5179	3	1111	ILKSPGSVVFRNGNWPPIREARDPPDVA ALSHGLPL*KKDLSWPGLA VGNLFHRP RATVMNVNNGVKNLDLPAGSGISYPL ENAVPFSLDVANSVHSLFSEETPVVLQ LAPSEERVYVM/VKGRANSVFEDLSVTLR HSRNRLVFKKTLFLSFTPPQILLSRNNEV DLLFLSELQVLHDISSLPSPRKHLLARDH SPDLYFTGSWAGLDEIGKALLGEDSEQ FRDASKILVDALQKFADHDVPMVFMVGN PVVELVHCPSHLNTSPPLGKTRDPLRPK QAQEPQVQVYNLA\YKYNFEYSVVFNM VLWIM\VALALA\VIITSYNIWNMDPGYD SIYRMTNQKISEWIECYLWPRIRKRGGF NWLFC
4259	12310	C	518	512	739	MAEHHWAFPIPSXASXGFAXLQPTKATL KKXEGFKXFXKKKKKKKTPEGGAXGTX IXXPXGGAGXNKXPXGXXG*
4260	12311	A	5180	18	594	NVAGTAICSFAPGRRQTPCHTREPQDGR PRARLTAWTRARGTCRVAHTHTGRQNH PMPLWGFSRHHRAFSEHLSLGCAPPSAT WT*TRSPAAAAAGP/PVPRKPNPSPPSRS PAGLRPPGRAGPLTSPRCGPPASQASDT VGPVRHKQRGPTSDVSGAWDGPATAAS GPVVRLYPSTLGGGRGRQITRSADKT
4261	12312	A	5181	68	446	RLTSELAQTLAVHPSKSARPRP*AGEKP GKKPPLQVNGAWD**PRVGADPGHSPD SLDPSTGDVQGGSYSYWEGRTITMPLW GFPDRAGLLGSPGSSGPGKRRPILAGQPY KLLELQARFLGPGH
4262	12313	A	5182	2	512	APPSATWT*TRSPAAAAAGP/PVPRKPNP SPPSRSPAGLRPPGRAGPLTSPRCGPPAS PGIGHCGCRQTQAAWPRRRTYQGRGMG PRPRPRRPVVPVGGERSHSHSPGPPLRSP GPEWGLTSSSCPARG/PGGCLCPQNQLPN PGP/SGPASPNLSPRLHPTDTSGBPFPRA

4263	12314	A	5183	14	720	RNFPDRPTRPRTRGRTRGRTRVRTFGPG PVASAGCSRGDGRFGEAGPTALDSGADS GVRDTLPVHEPGSCLRYRTPRPRSRH PTPLIRPTSGPRCFGSDGTHSVRCPVNAG RPGHLGLGG/AKSSGFAGQKGRLLAAG TCGVHVQGPLRAARPQEVLIQGGPLQP AAPEQPPATGAWLQPLRCSEKAL*LP* GAP/SQSPPRPMQFITVPASG*NAGGPGA SGGTRVPG*KLPDTGGP/SAQHPLSPTGL PHDARP/PSSCPTGRSCVHCPQLNAVHL* E*PANSELSRPLSEDTP*AAPTRPGSAG PISDPHSPPSSPSSSGTPALPGHMSS/GG KWYQHQPASACPVGL/PPDPAEKAGSQ PSPGHLVQAPGHPGPPGHTPAVTPSPFN SRAALPSFSR*PCQSPKPQSGCDPRPPR KPKPWKFQGS*GLPLQKNRPPFSPRTG ATPGEPPGAL/PLSGNPPKSHRDGSALPS MSMSHPARPSVLGSKLSGFLPSSWPGPC TF*WMKCGRTRSIRGHSCAWLCAA
4264	12315	A	5184	2	1558	RRSRDSGYRAPPASHSRPGQAARAPAPR PARREVCPRPGVPRRARTTRKTPTWAA VATGTRGASAEGGPTGLAHG/SGLAAAA GLMGCEPASGWGPGRQSGGARTAAAGS SGSSSGSGPSAPTSSSVLGSGLVAPVSPY KPGQTVFPLPPAGMTYPGSLAGAYAGYP PQFLPHGVALDPTKPSGLVGAQLAAAA AGSLGCSKPAGSSPLAGASPPSVMTASL CRDPYCLSYHCASHLAGAAAASASCAH DPAAAAAALKSGYPLVYPTHPLHGVHSS LTAAGGATPPSLAGHPLYPYGFMLPN DPLP/TSATGCRPTGRATSASPRPKSC*AT /SRHTAFPGTDKLLSGYPSSSSLASAAA AAMACHMHIPTSGATGQPWDAGAAQPP PRGWDSAAATPTTPRA/ALPTPGAPVVP AATGPYYSPYALYGQRLTTASAAGVSV RGGREGERGIGRKRGRGGVQGEAASRT RLLTARGEGLGPRKERNVLPYISYPTAA TETRWDTPLLPTFTSHTQTL
4265	12316	A	5185	6	56	VVAWRGSDSFGSLTSKLVQRQVFHHQL LKTVPHQAHFY*LPRAALQQIHRC*LPR/ DTSQVAASLLASKSSSQTSGLSVSKSTSL ASVSQLASKSSSQTSQPSKSTSQSSES SVKFSCKLTNEDVKHEATFF/LIRLYKTV AWKLVAVGGFSPNVNHGELLNAAIEAL KATLDVFFVPLKELADLPQNKSSQESIVC ELRCKSVYLTGCGKSKENAKAVASRE ALKLFLKKKVVVKICKRKYRGSEIEDLV LLDEESRPVNLPPALKHPQELL*CVQINIT AYNIWYLKRKTDFCIV*N
4266	12317	B	5186	133	345	RLSERRNWTQAMLYLKGAQGRRYLLR PEPANGPLRPAHCRIDHAPISTYYILRRPE PSYRSSSYFPDDD*

4267	12318	A	5187	2	2168	KESRRTVRRMLRGRSLSVTSLGGLPQWE VEELPVEELLFEVAWEVTNKVGGIYTV IQTAKTTADEWGENYFLIGPYFEHNMK TQVEQCEPVNDVRRRAVDAMNKHGCQ VHFGRWLIEGSPYVVLFDIGYSAWNLDR WKGDLWEACSVGIPYHDREANDMLIFG SLTAWFLKEVTDHADGKYVVAQFHEW QAGIGLILSRARKLPIATIFTTHATLLGRY LCAANIDFYNHLDKFNIDKEAGERQIYH RYCMERASVHCAHVFTTVSEITAIEAEH MLKRKPDVVTNGLNVKKFSVHEFQN LHAMYKARIQDFVRGHFYGHLDLDFLEK TLFLFIAGRYEFFKTKGADIFLDSLRLNF LLRMHKS DITVVVFIMPAKTNNFNVET LKGGQAVRKQLWDVAHSVKEKFGKKLY DALLRGEIPDLNDILDRDDLTIMKRAIFS TQRQSLAPVTTHNMIDDSTDPISTIRRIG LFNNRTDRVKVILHPEFLSSTSPLLPMDY EEFVRGCHLGVPFSYEPWGYTPAECTV MGIPSVTTNLSGFGCFMQEHVADPTAYG IYIVDRRFRSPDDSCNQLTKFLYGFCNMS RRQRFIQNRNTERLSDLLDWRYLGRY YQHAR\HLTLRQSFSKINFHVG*HAPPT DRKDFKYPRPSCSYPPFSFGSSGPSSP QSSDVEDEVEDERYDEEEEAERDRLNIK SPFSLSHVPHGKKKLHGEYKN
4268	12319	A	5188	1	1347	
4269	12320	A	5189	1	272	QTEGFKYRRPSSVPPSPSGSQASSQSSD VEDEVEDERYDEEEEAAGFG/RVY*ESPSI LYAVPYSDSCCQVTPSLHCSHFFILFPKT DKSS
4270	12321	A	519	1	760	
4271	12322	A	5191	225	430	
4272	12323	A	5192	16	1420	PSVRRNQRF*SCKDFDYWHN*RKQEGC YT/VLEKKVLSNRKQRF/DGSSGKLTGS TSSLNKL SVQSSGNRRSQSSSLDMGNM SASDL DVADRTKFDKIFEQVLSELEPLCL AEQDFISKFFKHSNIKVCLELWAGSRGP GMGGTITAT*LLGTPLPVSSEKDMIRQM MIKIFRCIEPELNNLIALGDKIDSFNLYM LVKMSSHV* LQQNVDPASFLSTTLGNV LVTVKRNFDKCISNQIRQMEEVKISKKS KVGILPFVAEFEEFAGLAESIFKNAERRG DLDKAYTKLIRGVFVNVEKVANESQKT PRDVVMMENFHHIFATLSRLKISCLEAE KKEAKQKYTDHLQSYVIYSLGQPLEKLN HFFEGVEARVAQGIREEEVSYQLAFNK QELRKVIKEYPGKEVKKGLDNLKVD KHLCEEENLLQVWHSMQDEFIRQYKH FEGLIARCYPGSGVTMEFT
4273	12324	A	5193	2	391	FFFFLRWSLA/SV/TQAGVQWRGLGSWQ RPPPGFKSFCSLLSSWDYRRPPHAQLI FVFLVETSFTMLAGMVIS*PRDPPASAS QSAGITGVSHRARTLLIFKRCSIRDESFE VFLYVYLFKTNILLKA
4274	12325	A	5194	2	302	KTLSQGCPRLEVQWCNLSLQPL/PFPGS K*FCSLSLPGSWDYRSVPPRSANF*FLV ETAFHHVGQAGLELSTSGDPPVSASQSA GITGVSHSARQ*RAF
4275	12326	A	5195	2	388	RATPRHIIVRFTKVEMKEKMLRAAREKG RVTLKGKPIRLTADLSAETLQSRREWGP /IFNILKEKNFQPRISYPKVSFISER*IKYF TDKQMLRDFLTSRPALKELLKEALNMER NNRYQPLQNHAKM



4276	12327	A	5196	1	578	VAAKCMHKDAKKGFIRLDMS*FQERHE VAKFIGSPPGYVGHEEGGQLTKKLKQCP NAVVLFDKAVDPAHPDVLTIMLQLFDEGR LTDGKGKTIDCKDAIFIMTSNVASDEIAQ HALQLRQEALEMSRNRIENLGDVQISD KITISKNFKENVIRPILKAHFRRDEFLGRI NEIVYFLPFCHSELIQLVNKEC
4277	12328	A	5197	3	1618	
4278	12329	A	5198	495	653	MTLTSIDPVLTTFFNLECL/VFTATASSG LGEVE*AIALN
4279	12330	A	5199	1	1433	MPESNCSLTWRHSVGRAVAAQGGHSS QGASLVLGEPRGGSSWLLGLEGDTGLW GGLLKEGRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEMSRNRIAE NLGDVQISDKITISKNFKENVIRPILKVR GLSWHFLLEPKAHFRRDEFLGRUGEIVY FLPFCHSELIQLVNKELNFWAKRAKQR HNITLLWDREVADVLVDGYNVHYGA RSVKHEVERRVVNQLAAAL*SRLLPAG GCTLRITVEDSDKQLKSPPELSPQAEKR LPKLRLEIHDKSKTRRLDIRAPLHPEKG RLTDGKGKTIDCKDAIFIMTSNVASDEIA QHALQLRQEALEMSRNRIENLGDVQIS DKITISKNFKENVIRPILKVRGLSWHFLLE PKVLTTFNLSVLVYHGNISQRLGEVNKL AVLPRLRSLTLHGPNMEEEGYRRARG HSLHQGIEKYICESDDIFRKYCNNQFL
4280	12331	A	520	669	823	
4281	12332	A	5200	1823	4712	FFKKNLCASAHYY/TWCVLPFFFFLRRQ L/NSIGQAGVQWCNHSSLQPCPPRLKLSL HLSLPSSWDHRHAPLRMT/NFFKYLRRG LPVLPRLVSNSWAQVVLPS/SASQSIGITD MSH*PAQLPNSLPFFKRQFRSISPLGM Q*CDHSSL*PQTLGLKQFSHQPPFFVQ MGSCYVAPSW*TPKENTTHIQPHMYT LKTTVTFLYTELYSDIA
4282	12333	A	5201	3	298	RQSCSVA*AAVQWRDLSSLQPPPLGFKR FSCLSLLSSWDYRRPPRSVNF*KIFLIET GFHHLGQAGVERLTS DPPGSASQSAGII GISHCTWPELFK
4283	12334	A	5202	1	422	APMPAATMTARSGPAAISTRCPWRPRSP STPRPSWSGTCCAPTRSLRRAATASQGPS PATNTPSPRAASPP*RVWAPRTETIKGHT AHSRLTGATTGPKLSAP/VATESGHPPDSQ KPPTHPGTSD/TILPPETASHPSTRRP*LPP ETASHPSTRRP
4284	12335	A	5203	123	201	KRGFCWVPQVGGQGHDFGLWQSPFPGL RQFSGFFLWKSWDYGHPPPC*ISSSSSSSS S\FSSSSSSSLKLWT*GDPLA*VSQRVGIP GLSHWP*PRLGGRGTILVYGNLHFRD
4285	12336	A	5204	88	167	KINMGILLKL VYRFNINPVKTPAGLFSSS SHE/ITEIDKRILKFIWKCTEHRIAKQSLK RTKLEDFLNFKTYEATEIKTS*YRFNI NPVKTPAGLF
4286	12337	A	5205	179	474	FGFQINVFKDPVADPNKRSKKGRSLHR TPAGNFVTL*GKGDLEEGQDLLHTV *KNGKVTKAYSFDEIRKNAQLNIELEAA RSLGLMDWVCVCM
4287	12338	A	5206	195	351	

4288	12339	A	5207	1	1080	ERCTMPDEPLVRAPDKGTDSPSPPLEET SNGGRMLHESLRHAVPITRMQSSDTEA GAPAYSDDEDYEEDIEPRTLNEITTVTDKT SPWSSVISDTSEVISQPDEVQREGPSCPS PGPFCEELMVKSSFLSSPERAVNPHLPR QD\SPSQSLVACECEASKARVGGESASA NPQIPPCPTLSGAQQSSTFGWSSPQTDQ NKEPKSEAPA\EELKVATS*GSVDSA*LA FKKLPLNLASQSRRENHKGPPIDSSDIRQ RQVTTGSETSTKQSLLLPGPIVVPNFFLPP QQLEASLRMLSLSATLPPAATTDQDKSE ATRGAJSQRPCRPRPNLPLNLP EEETLR IARIFSSQYSQKD
4289	12340	A	5208	1	1140	AIVEDKHSGRSYDITSDLG NVLTSTSIK TVNG*AESDSDGAESDEEDAQEDLMGA YHSDIDKKMMKIVADHKNLEVIVTNGY DKDGFVHDIQNDIHASSSLNGRSTVHVK PIDENLGQTGKSAVCIHQDINDDHVEDV TGIQHLTSDSDSEVYCD SMEQFGQEE SL DSFTSNNGPFQYYLGVHSSPPMENSGR EDIQGPNGNIGNMQVVAVEGKGEVK HGGEDGRNNSGAPVHREKRAGETDEFSN VRRGRGHRMQHLS\EGTKGRQVGS GGD GERWGS DRGSRGSLNEQIALVLMRLQE DMQNVLQRLQKLEMLTALQAKSSTSTL QTAPQPTSQRPSWWPFEMSPGVLTFAI WPFIAQWL VLYLYQRRRRKLN
4290	12341	C	5209	68	331	MLKNVLMRKCGVHDREKFLVLDYFCQS SVLAVLYLILSLCYFPYQDVASECEVKC MPTFQFFKKGQKVGEFSGANKEKLEATI NELV*
4291	12342	A	521	3	108	VCREREPHQKVFNKMPK*SYRTVPVTPE GIVLSL
4292	12343	A	5210	935	1036	
4293	12344	A	5211	1	3270	MRPKTFPATTYSGNSRQLQEIREGLKQ PSKSSVQGLPAGPNSDTS LDAKVLGSKD ATRQQQMRA TPFGPYQKALREIRYSL LPFANESGTSAAAEVNRQMLQELVNAG CDQEMAGRALKQTGSR SIEAALEYISKM GYLDP RNEQIVRVIKQTS PGKGLMPTPV TRRPSFEGTGDSFASYHQLSGTPYEGPSF GADGPTALEEMP/PAVRGLPFPRSRPPRA RPPAPAPTQGLRCQRRGSRGTLPAAGRA LR
4294	12345	A	5212	3	274	LERLIFVGG LGQFFPPPKLRFFPKIPQLVF FSPPFRKKIFPCPPRLSLGPPRVLLKGPPS SSSSSSSKKC*PLMFYCHRRWPTGVVYV LP
4295	12346	A	5213	403	776	QGP DHFSLFWHLLQAPGLSPCLKWATA LET PPSNGLPIVPVFP GSSRMAGMIE\SH IIEIGFLPNKEKKKGCCPPLFPRNFGFKF APSG LKVG\YLVFEPKLNYS DH DVIKW VR*IGR\SGIY
4296	12347	A	5214	165	439	PPRQAKMQNLAAPGSHSQSPW/TLRPKA L*LTPSQIFSA*RLKTD TARS PRKPPSFQ PVS LASITVVGIDGQASKPLKTPQLWCQ LRQYSFK
4297	12348	A	5215	2	525	AAED*HCPIASETYKTITELWVTL PVEG KSV PFLINTEATHSTLPSFQGPVSLASITV VGIDSQAYKPLKSSQLWCQLGQYSFMH SFLVIPTCPVLLGQDILTKLSASLTIPGL QPHLIATLFP SLKPPSHPLVSPHLNPHIW DMSTPSLVTDHAPLTIPLKPNHPYPVQC
4298	12349	A	5216	1	425	PGNEIYR/KGTISFFEIDGRKNKSYSQLC LLAKCFLDHKTLYYDTPFLFYVMTEYD CKGFHIVGYFSKEKESTEDYNVACILTLP PYQR/RGY/GKLLIEFSYELSKVEGKTGTP EKPLSDLGLLSYRSYWSQTINEISEITS

4299	12350	A	5217	25	193	LGGCEDSRRKGAPRCFLSRGDHSWEPRD *PPPWLFPNSNC*LAAGRPSVRSSPS
4300	12351	A	5218	1	1383	
4301	12352	A	5219	1	1617	MAEVGEIEGCRPLVLRNQDNEDEWPL AEILSVKDISGRKLFYVHYIDFNKRLDEW VTHERLDLKKIQFPKKEAKTPTKNGLPG SRPGSPEREVPASQAQSGKTLPIPVQITLR FNLPKEREAIPEGEPDQPLSSSSCLQPNH RSTKRKVEVVSPATVPVSETAPASVFPQN GAARRAVAAQPGKRKRSNCLGTDEDSQ DSSDGIPSAPRMTGSLVSDRSHDDIVTR MKNIECIELGRHRLKPWYFSPYPQELTTL PVLYLCEFCLKYGRSLKCLQRHLTKCDL RHPPGNEIYRKGTISFFEIDGRKNKSYSQ NLCLLAKCFLDHKTLTYDTPFLFYVMT EYDCKGFHIVGYFSKEKESTEDYNVACI LTLPPYQRRGYRKLIEFSEVELSKVEG KTGTPEKPLSDLGLLSYRSYWSQITILEIL MGLKSKSGERPQITSNDISEITSIKKEDVI STLQYLNLYYKQYILTSEDIVDGN ERPMLKVRLLRIDSCLHFSQRTWSQE VDSGDQDTCPHCKCQRPASQDLGAD
4302	12353	A	522	383	542	LWSPNSNILDTTTAGEPTEQDLNRERER EKE/REERERERERERERERERERERES
4303	12354	A	5220	890	1537	MLLMFICDLLTLSCSIALGYELSKVEGK TGTPEKPLSDLGLLSYRSYWSQITILEIL GLKSESGERPQITIK*AWRCLPGGTWHG LSVPGLSLSGLLGTDKGPGQT*PVLSHSE ISEITSIKKEDVISTLQYLNLYY/KGRE GRGDRCVGCRVQSSVG*PPAEPISQAQ QYILTSEDIVDGERAMLKRLLRIDSKC LHFTPKDWSKRGKW
4304	12355	A	5221	2	434	LRDGVLLCHPGWSTVAQS*LTAALNFW VRGSSCLSL*LVLRNSPLHPANLFFYFC R/DKHLTILTRLVLNFWAQVILRPWLPKG LGITGMSHCTQPNFKNQRKGYCQVNFN NQTKTLSLAGNTYFTPIFFGNKHVTSY NFPSM
4305	12356	A	5222	3	384	VVAAEVPSFFFFLRTESCFTVQAGLQW HDLGSATSI/SPGSSDSPASASQVAGITGR HHYALA*FFVFLVDMGIHHVGSWSRN SLNLVNLPCLGPPQYWGLQGMSPMPRP LKCPSLKGKMPNSHP
4306	12357	A	5223	2	322	LYFFSFETESCSVTQAGVQ/WWCDLGSL ATPPPVGSSNSCASAS*VARITGVHHHAQ LMFVFLVETGFHHFGQSGLKPLSDPPAS ASQSAGINRCEPPGTGHYIFSK

4307	12358	A	5224	1	2535	MQPLDFSSGGSDPNISLSEKIRDQLVVGQ LIPDCYVELEKIILSERKNVPIEFVIDRKR LLQLVRENQLQDENELPHAVHFLNESG VLLHFQDPALQLSDLYFVEPKWLCKIMA QDVSSIFGLYIRDILTVKVEGCPKHPKGII SRRDVEKFLSKKRKFPKNYMSQYFKLLE KFQIALPIGEEYLLVPSSSDHRPVIELPH CENSEIIIRLYEMPYFPMGFWSRLINRILE ISPYMLSGRGICLLGQVVDHIDSLMEEW FPGLLEIDICGEGETLLKKWALYSFNDGE EHQKILLDDLKKAEEGDLLVNPDPQRL TIPISQIAPDLILADPPRNIMLNNDLEFEQ APEFLDCFVCIHLYPSSDYISRHYMRTI NIVQTGFAKCRWRVTVHGADHGDGSFG SVYRAAYEGEEVAVKIFNKHTSLRLLRQ ELVVLCHLHHPSLISLLAAGIRPRMLVM ELASKGSLDRLLQQDKASLTRTLQHRIA LHVADGLRYLHSAMIYRDLKPHNVLLF TLYPNAAIIAKIADYGIAQ/SLL*NGD*KTI QRGTPGFRAPEVARGNVIYNQADVYSF GLLLYDILTGGRIVEGLKFPNEFDELEIQ GKLDPVKEYGCAPWPMVEKLIKQCLK ENPQERPTSAQVFDILNSAELVCLTRRIL LPKNVIVECMVATHHNSRNASIWLGC HTDRGQLSFLDLNTEGYTSEEVADSRILC LALVHLPVEKESWIVSGTQSGTLLVINTE DGKKRHTLEKMTDSVTCLYCNSFSKQS KQKNFLLVGTADGKLAIFEDKTVKLG AAPLKILNIGNVSTPLMCLSESTNSTERN VMWGRMWHKDFLLF
4308	12359	A	5225	2	223	LGVAFCFFCFWFVLFVGLQLLSNL EKFQPLCLQIFFLSPCPIRSLY/C*SSKVV SOLTVTLLVFPVFFSL
4309	12360	A	5226	236	1626	LAAAAHPLAGLVGGEAWIGGAKSWLSF SAGSSCMAEMATATRLLGWRVASWRL RPPLAGFVSQRAHSLLPVDDAINGLSEEQ RQLRQTMAKFLQEHLPKAQEIDRSNEF KNLREFWKQLGNLGVLGITAPVQYGGG GLGYLEHVLVMEEISRASGAVGLSYGAH SNLCINQLVRNGNEAQKEKYLPLKISGE YIGALAMSEPNAAGFWMVSMKLKAEEK GNHYILNGNKFWITNGPDADVLIVYAKT DLAAVPAISRGITAFIVEKGMPGFSTSKK LDKLGMRGSNTCELIFEDCKIPAANILGH ENKGVYVLMSSGLDLERLVLAGGLGLA MQAVLADHTIPYLHVREAFGQKIGHFQ/L MQGKMADMVYTRLHGLFGQYVYNVAK ACDEGHIIPKDCAGVILYAAECATQVAL DGIQCFGGNGYINDFPMGRFLRDAKLYE IGAGTSEVRRLVIGRAFNADFH
4310	12361	A	5227	1	867	MATATRLLGWRVASWRLRPPLAGFVS QRAHSLLPVDDAIKGVLR/ESQRQLRQT MAKFLQENLAPKA/REIDRSNEFKNLRE FWKQLGEPWAVFGASQPLVQYGFGRP GAYLGSMLL*WEEISPSFSGAVGLASYG AHSNLSHQPSLLRNWEFRAQKEKYLPEG *FSGEYIGALAMS/KPHAGSDVVSMLK AEKKGEATLNLGAKMGRGNHYILNGNK FWITNGPDADVLIVYAKTDLAAVPAISRG ITAFIVEKGMPGFSTSKKLDKLGMRGSN TCELIFEDCKIPGK
4311	12362	A	5228	3	391	SHHHPLAAPSLGEAAISRSFQSLACSPGL PAADRLSYSGRPGSRQAGLGRAGDSAV LVLPSPGPRSSRPSMDSEGGSLLLDEDS EVFKMLQENREGRAAPRQSSSFRLQEA LEAEERGCTPAFLASSLSPQSFLARLQG/ GLATPPKLHTCEKCSSTIANQAVRIQEGR YRHPG/CYTCA/DCGLNLKRRGHFWVG DELYCEKHARQRYSAATLSSRA*APFG

						SCRKPWKLRREVARQPSWPAH
4312	12363	A	5229	2	384	FVHFQSKKTMRKICLFFFSSETGSRVS QAGVQ/WARVIAHCNLKLLDSSDLPALA LAS*VARTVGMVHRGLACVYFHQINLIL YFLAQMNLLKKHQTFLEMLNLIASQA GKIYSSNRNIKVFWPQ
4313	12364	A	523	389	549	ERKRPSRKQ/RERNRKNQNERKSRGDW QRANVGAGQKEEMKCLAVELEIGSQPR S
4314	12365	C	5230	301	369	MPTLYNHCFLQLFTIISKLSY*
4315	12366	C	5231	210	329	MWNLCIWRVNCTINNTNMPTLYNHCFL QLFTIISKLSY*
4316	12367	A	5232	2	268	FFFLKRDARVSFCHPGLSAVAQL*LTVAL NS*VKGSSYLSFQS/SWHYRYVLPYLAN FKNFFFKRRELTFLRLILTSAQVSFLL OPPK
4317	12368	A	5233	1	415	LFAGPSAMFYLA AAVSDFYVPVSEMPEH /KIQSSGGPLQITMKMVPKLLSPLVKDW APKAFIISFKLETDPAINRARKALEIYQ HQVVVANILESRQSFVIVTKDSETKLVS THSFYR*QKLK*KALIGSKIVQGS
4318	12369	A	5234	3	705	PVRFLDNFSSGRRGATSAEFLAAGYGV LFLYRARSAPFYAHRFPQTWLSALRPS GPALSGLLSLEAEENALPGFAEALRSYQ EAAAAGTFLAVEFTTLADYLHLLQAAA QALNPLGPSAMFYLA AAVSDFYVPVSE MPEHKIQSSGGPLQITMKMVPKLLSPLV KDWAPKAFIISFKLETDPAINRARKAL EIQHQVVVANILESRQSFVIVTKDSET KLLSEEKKK
4319	12370	A	5235	200	636	GPCAMFYLA AAVSDFYVPVSEMPEHKIQ SSGGPLQITMKMVPKLLSPLVKDWAPK AFIISFKLET*PR/LIVINRARKALEIYQH VVAWNLGVKDSPLCLL*PKDSEPKLL SEEEIEKGVEIEEKIVDNLQSRHTAFIGDR N
4320	12371	A	5236	17	424	
4321	12372	A	5237	1	338	SDRQLDC/ALDLMR/RLPPQIGKNLSNLI DLVPSLCEDLSSVDQPLKIARDKVVAK DYLLCDYNRDGDSYRSPWSNKYDPPLE DGAMPSARLRKLQVEACFCHTSLSVLST FP
4322	12373	A	5238	2	160	
4323	12374	B	5239	46	426	MSDQQLDCALDLMRRLPPQIEKNLSDL IDLVPSLCEDLSSVDQPLKIARDKVVGK DYLLCDYNRDGDSYRSPMEVTKYDPSL GRMGGNAVKLRAEKSLEVGKANKWPF DQYPKTLLELLDPG*
4324	12375	A	524	1	495	EELVPIFLTLFHKIEKEGTLPSFYEASITL IPKPGKDITKENYRWISLMNIDAKILNK ILANQIQITKKIHHQVGFIPGMQGW NMHKSINVIHHVNRIKKNHMIISIDAEK AFDKIQHPFMIKTSLK/MGIQGTYSVIK AIYDKPTANIKQTFQIQD

4325	12376	A	5240	2	938	PRVR*APGPAAGGRATDAGTGTAATAAT TMSDQHLDLDCALDLKRRLRPQQIEKNLSD LIDLVPSLCEDLLSSVDQPLKIARDKVVG QDYLLCDYNIDGDSYRSPWSNKDDPPLE DGAMPSARLRK\LEVEANNAFD\QYRDL YF*KVGVSSV\YLWDL\HGFGLS/VILH KRKGWEDGIKRRSKGCWDSIHVVEVQ EKSSGRTPHYKLTSTVMLWLQTNKSGS CTMNLGGSLTRQMEKDETVSDCSPQIS/ ATIGRLVEDMENKIRSTLNEIYFGKNKG YRSMGLRSV\QTFADNSKQEALEELTLV GGFERESKQC
4326	12377	A	5241	1	1911	
4327	12378	A	5242	3	803	ESVAAALSPLGIEVDIDVEHGGKRSRLT PVSPEVSAATGEKSSSQSSCCSDPSKPG GNVEGATQSLAEQMRKIALESEGRPEAS LCPFPPTGTTGQPSDLWPAPPPHSQHLCS PTYKPEGAGCWLAVDVCCHLKSRWEPA RTL*LLGLCEWPLFPLDPCSLNCTCACVL PDCLPGARAMVRLGLLRVSPVCSW*VLF QEQMESDNCSSGGDDWTHLSSKEVDPS TGELQSLQMPSESGPSSLDPSQEGPTGLK EAALYPHLPPGK
4328	12379	A	5243	2	1511	RGGCDRDGPFSASSPLAMASLTVKAYLL GKEDAAREIRRFSCCSPEPEAEAEAAAG PGPCERLLSRVAALFPALRPGGFQAHYR DEDGDLVAFSSDEELTMAMSYVKDDIFR IYIKEKKECRRDHRPPCAQEAPRNMVHP NVICDGCNGPVVGTRYKCSVCPDYDLCS VCEGKGLHRGHTKLAFSPFGHLESEFS HSRWLRKVKHGHFGWPGWEMGPPGN WSPRPPRAGEARPGPTAESAGPSEDPSV NFLKNVGESVAAALSPLGIEVDIDVEHG GKRSRLTPVSPSSSTEESKSSSQSSCCS DPSKPGGNVEGATQSLAEQMRKIALES EGRPEEQME\SDNC/SQGGDDWTHLSS KE\VDP\STGELQSLQMPSESGPKLSGTP PREGPTGLERKLPLYPHLPPEVDPRDL SPFSQIACSMGLSS*LKGGLGSTRVPGRP KNY*HSERLWDTIQ\YSK\HPPAVVDHFL PTFFLRAPLLVFIVVFKLCVELAGLL
4329	12380	A	5244	24	493	HWQVLPRVKKRLSPLKTHNCALPSTKLS AVRDYLFYSENLFNPQLNKDS*RGK*QA LK/SPTAVVFLSLSHSFSFAVSEGCFHR ERQVASTSMEQLLSLLAGIPFVEDSCPLQ KELSKTLP\TLEVLGVSMFFKFSWLPVI WVFGFISQLSGLES
4330	12381	A	5245	1	4547	MRNPVHSHIGATVSHQTDGANVPNMP ALQSQLITSDTYSMQMQMIPSNSTRLPV AYQGNQGLNQSFSEQQVDWTQQCISKG LTYPDYRPPPKLYRYSQSFPLPDSTIQKQ NFIPHTSLQVKNSQLLNSVLTLP\SRQTS VPSQQYATQTDKRPPPPYPNCRYGSQPL QSTQHITKHLMEVPQSREMLSSSEIRTSF QQWQNPENNVSTIGNFTNLKVNTNSK QPFNSPIRSSVDGVQTLAQTNEEKIMDSC NP
4331	12382	C	5246	191	397	MLPRAGLLCGKLVNPNFSQPSRQILLCL GCDSPHLTVGHEGWKTLP\GAGATPYRI GPFSLLQRGVS*
4332	12383	C	5247	598	744	MSKVLNQSTYITVQCGYVSINSFYVSFY YSIKLAKRHLGTFRTVLVI*
4333	12384	A	5248	164	355	NGSTGCIGIQANQYFNYSRLSSFESGKFV KCTEQLELVPGENIH*LLEGSKKKLTLLK NLFRNM
4334	12385	A	5249	1	308	KVQSFIFYLFIYF*DGVL*LFPGWSAVV LSRLTATSA\FRFKQFSLSPSSWDYRC PPLHLANFCIF**RRGFTMLARLVSSIS*PQ VIRPPWPPKVLGLQM

4335	12386	A	525	219	471	INFKKKNRFLFNKWWTCVATLEKNKM NSFLMIYPKSNK*FKNPVNRGKKL*NLF ILLYFKF
4336	12387	A	5250	67	367	SDELRTPGRESLPAENISL*DRVNHQPAIE SCTA*NYLYSINAKTKGEMLEAEGMRV VTNSVYHWRLCEKQQTVMKAGCWRT DKLCLPPEGMLWAVMSR
4337	12388	A	5251	1429	1621	IPWIPPVSRSMVTHTRAPTRFVHLPFFQ TDPFVVFISAFVLLRLVQKQP*QVVPDQ GPERGR
4338	12389	A	5252	180	411	IPWIPPV/CPFHGHTHLE/VHPHGLSISLYS PPADSPVQGFVRLISFTFSALADLPRSG PWSDTTCHGCFTVAASSEL
4339	12390	A	5253	288	530	
4340	12391	A	5254	9	257	IFTAVAFIIESWKQPQCL*TNE*/IKLWYI HTMQYYSAIKRNEKLIHATTWMNSEN QW*KARHKKPHIV*LHLYEGSQKRQI
4341	12392	A	5255	6215	7038	RTVTTFLSKDSHGVYCAQGGKIPDHQNP QCNRKQHPVSTILMLDKASFCQLRKRKH NLSVNCINRNPMSLKNTSWHSSLSVTQ RHQQQSKLHFQGSILH*PSQNIL/SNI*K CINYC*HCSSVLLSYLFIETESYVAQAG VQWHDGLLLQLPLRFKQFSCFSLPSSW DYRSAPSCPANFCILVEMGFCHVGQAGL KLLASSDPPALASQAGITGVSHYTQPCS PFLKSTGLFCKVLSNPYHKGRIYLGRM CFLNSTWHLVKSTLFCPLFI
4342	12393	A	5256	2	513	VLIQLVWIALLLVDPSPVLTKDEPASS TSSFTSQSKKGQSGFLQSRN*GCIALC E/VFQREEIY*VGMD*DSFRIKWFFNFIFH LTVITSSDLHIHGEIWWVPNTDHSVCTRFF FVYDDCLVYAYINTLL*GFY*YILLVIV NYTGSVHWFIYYLVNLVFCFLLYI
4343	12394	A	5257	1	274	STPPHSSQRACEPLPSFAQCPR*APSPPAP HCALICPIPKMEERP/PM*IGR*RRHLLST YCARSCTEQAPCIILLNPHNVLDLSRLW VKGO
4344	12395	A	5258	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNLCYLDSTLFCFAFSSVLDTVL LRPKEKNDVEYYSETQELLRTEIVNPLRI YGYVCATKIMKLRLKILEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
4345	12396	A	5259	1	340	
4346	12397	A	526	1	1423	MNPNQEEISDLPERIQETEKEGTLPSNFY EASITLIPKLKDKTKKENYRPISEMMNIE ANILNKILANQIQHIKKIHHQDQVGFISQ MQGWFNHRSINVIHHINRIKKNHMIISI DAEKAFDKIQHHFIKTLKIGIQGAYLN VIKAIYDKPTANIILNGKKVEAFPLRTGT RQGYPLSQLFFNIALEVLAIRQENEIK GIHIGKEKVKLSLFAGDMIFYLENPKDSS KKLLELIKELSKVSRWELNNENTWTQGG EHHTPGPVVGSGEERGIALGDTPNVNDK PLTGAALASTLGVWENENKFTHLFNIHS QFCLPSQGIFFLCGTSTYVCLTTNWTSTC TLIFLSPKIDAPGNQTLPPVRAQVHQH RAVQIIPLLIGLVTNATGTGIAGLSPSL YYHTLSKDLSDSLQDIKSTLTLQSQIDS LAAVTLQNHRLRPPNRRKRWAMHLFR GRLFFHQPVWD
4347	12398	A	5260	215	384	

4348	12399	B	5261	347	1742	MPNTNGSIGHSPLSLSAQSVMEELNTAP VQESPLAMPPGNSHGLEVGSLAEVKEN PPFYGVIRWIGQPPGLNEVLAGELEDEC AGWYGWNLQEGTRYFTCALKKALFVK LKSCRPDSSSVLDTVLLRPKEKNDVEYY SETQELLRTEIVNPLRISAGQKVQDCYFY QIFMEKNEKVGVPITQQLLEWSFINSNLK FAEAPSCLIIQMPRFGKDFKLFKKIFPSLE LNITDLEDTPRQCRICGGLAMYECREC YDDPDISAGKIKQFCKTCNTQVHLHPKR LNHKYNPVSPLKDLDPDWRHGCIPCQ NMELFAVLCIETSHYVAFVKYGGKDDSA WLFFDSMADRDESNEFVQITGVIGKKG ETEGRVLTLLHLAGSSVHVHCRQWMSL W*
4349	12400	A	5262	1	1547	PVQESPLAMPPGNSHGLEVGSLAEVKE NPPFYGVIRWIGQPPGLNEVLAGELEDE CAGCTDGTFRGTRYFTCALKKALFVKL KSCRPDSPFASLQPVSNQIERCNSLAIWE AYLSEVVEENTPTQKWEKEGLEIMIGKK KGIQGHYNSCYLDSTLFCFAFSSVLDTV LLRPKEKNDVEYYSETQELLRTEIVNPLR IYGYVCATKIMKLKILEKVEAASGFTSE EKDPEEFLNLFHHLRVEPLLKIRSAGQK VQDCYFYQIFMGKK*GKLGVPITISGSC*E WSFINSNLKFAEAPSCLIIQMPRFGKDF KLFKKIFPSLELNITDLEDTPRQCRICG GLAMYECRECYDDPDISAGKIKQFCKTC NTQVHLHPKRLNHNKYNPVSPLKDLDPW EIARHGCIPCQNMELFAVLCIETSHYVAF VKYGGKDDSAWLFFDSMADRGGQNG FNIPQVTPCPEVGEYLEDVSWKTLHSLG LPGESQGCARRLLCDAIYVPCTQSPTMS LYK
4350	12401	A	5263	29	258	LRKYHATDLIS*GSVVGEFDCCFSLDGL SLEDAVDGLLALALQPHKEQYKEFQDLN QEVMLNDDILKVSTFSQKLD
4351	12402	A	5264	98	497	THENNYNEKKDEIKIFKISLQISAQEEFPF FRRWKSCLCCPRLGVQWHDLGSLQPPT SP/GFKRFSGLKLP/RAAWIYRYVPITSG* FLYFQ*RRGFTHVG/QADLDLLTSGDPPV WASQSAGITGVSHHAQPPYC
4352	12403	A	5265	156	1047	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDRKDDRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKKSKFESITNGDSFSPDLALD SPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4353	12404	A	5266	156	960	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDRKDDRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4354	12405	A	5267	4	496	DGFPSCCQAGVQ*HDLGSRQPPPPGSSD SPASASRVAGTTGMHH*SRDVLIRILELE EGLELCPHFVSRKLPKTGQILTLMLSLAP VKLAPQPKLSWMELTRTQQA VSPFGR WGGIGRRKVLVPIAADGWASQARGLL GGSGKGEGKATGCEREGLTCLQG



4355	12406	C	5268	190	435	
4356	12407	A	5269	114	267	QLYNHTPPPLSKSKEREMDKKDLKSR TLKQKQKPLVNVVHNSWF*DHSN
4357	12408	A	527	31	332	
4358	12409	A	5270	1	1071	
4359	12410	A	5271	1	1231	GRFLCCMLETVTRWHSRATYEKECGN YPGFLTILRATGFDGGNKADQLDYENFR HVVHKWHYKLTKASVHCLETGEYTHIR NILIVLTKILPWYPKVLNLGQALERRVHK ICQEEKEKRPDLALAMGYKIIIF*CDLQ D*MTEGF*RL*NVLQC*SLSSAFRRLWEI MRSCFHRLVRVTSDYQLPVYTG**FF*S HV*YFLIGRKYNFIIIVNRSSRVKKKKPS* FKD*FIGKL*FLRKLGV*KPSRTY*KWV FFNSLEPHSRMNNLLILFKTSCLCFLIW VCIFKHVRLSSYSGQLKK*EKSIP*YPEN EFPSQRPPPPRANA\SVQNGPAGGGPSSS SIGSASKSDESTEETDKSRERSQCGVKA VNKASSTTPKGNSSNGSGSNSNKAVKE NDKEKGKEK
4360	12411	A	5272	2	3383	ITDQVLLPSLSLMDCNACMSEELWGMF KTFPYQHRYRLYGQWKNETYNSHPLL KVKAQTIDRAKYIMKRLTKENVKPSGRQ IGKLSHSNPTILFDYVCFEILSQIKYDNL ITPVVDSLKYLTSLNYDVLACILSNCHIEA LANPEKERMKHDDTTISSWLQSLASFCG AVFRKYPIDLAGLLQYVANQLKAGKSF DLLILKEVVQKMAGIEITEEMTMEQLEA MTGGEQLKAEGGYFGQIRNTKKSSQRL KDA
4361	12412	A	5273	442	1457	KHFLYIYAQMNCFSRLRKKKKKKKNOLL LQVFSSADE*GSSSSSSSSSGHKRHKHK RNRSESSRRSRHSSRASNQIDQNRER* VLPSSS*YFSIFSFP*TRSGRKLKGQDR LQYEKTQIKEKDRCLSSSSLEIPDDFGG RSEDPRDFYNSYKTQAGSSKTEKPYKSE DIFPARRNSSDSFCRNSEAKIYGYRRFEK DIEGRKEHYRRWEPGSVRHSTPASSEY SWKSVEKYKKAHSGSRDFSRHEQRYR LNTNQGEYEREDNYGEDIKTEVPEEDAL SSKEHSESSVK/NKFTSEFTEYI*SDS*I*K RKRK*GQKINTPKDIGHPLQNAH
4362	12413	A	5274	2	457	KLIFFPKPSAPQEGRQFC*KIGNRPTQL TGPVMPVRNVYK\KEKARVITEKEKNF QSPCLVFVMARAK\ARL\FGIRAKKSPRK PQNQDVEKEKIKTLPGNFEISLAVMPGSP TWCVSVGTTWALGWGFTACDFLLPRGF GAFLKRQVQAPG
4363	12414	C	5275	27	158	MHSPKPTGQVSWLGMTTASLPGTNASSM WMPWRLEDHSNLDALP*
4364	12415	A	5276	1	320	
4365	12416	A	5277	100	659	CPLVIRSCSSALWDIETGQQTTFGTGHTG DVMSLSLAPDTRLFVSGACDASAKLWD VYSQCFFLSVYMMMS*FAFSQFFPNGNA FATGSDDATCRLFDLRADQELMTLTPHD NIICGITSVSFSKSGRLLLAGYDDFNCNV WDALKADRAGVLAGHDNRVSLCGVTD DGMAVATGSWDSFLKIWN
4366	12417	A	5278	16	495	AFSAPDTRLFVSGVACNASAKLWN\VE GMCGQTFTGHESDINAUCFFPNGNAFAT GSDDATCRLFDLRADQELMTYPHDNII CGITSVSFSKSGRLPPGMGTTFNFCNVW DALKSRTGQVFLAGHDNRQPAWGV D\DGMA\VATGSWDSFPQDLGN
4367	12418	A	5279	5	108	SRGFTLLARLVLS*PQ/CDPPLPLASQSA GI/TRLGMSYHA*PIIIFETRSRSVTQDG/G VQ*CNHGLLQPWHPGLKESSCLSLPG/G HAPPHLANFIFCRNRVSLCCSGWS*TSSD

					PPLPLASQSAGIIGWV
4368	12419	A	528	27	178
4369	12420	A	5280	1	458
4370	12421	B	5281	403	629
					XVHLVKASCQACGQLDRVRKQVFNIPS FIVRLDSQKHIDFSLRSPYGGGRPRGVKR KNAKKQGGAGAGDDEED*
4371	12422	A	5282	1	637
					PVARSWVCRKTYGDPGRGPFEEKSRLDQ VELKLIGGVWGSGBKREVLARVKFTLAQD SAKAAPGNWLTLDKEDPTGVLFERQTP LLR/RGLVPQLGCWDEGQKMKLADYIPG P*RLEDFFRETPTCKTQVFQSLGLAKSIHQ PRFACLSRQRHIRVRKIQVFNIPSFIVR LDSQKHIDFSLRSPYGGGRPARVRKRN AKKGQGGAGAGDDEED
4372	12423	A	5283	3	295
					VCIGVLLCCLGCGVRWHDHASL*P*PPG LKRSSHLSLLSTWDHRHMLTHPLNFFIV EPRSHYVAQTGLKLLGSSSPASASQSAR ITGVSHHTQSKK*FLFVEPRSHYVAQTGL KLLGSSSPASASQSARITGVSHHTQSKK
4373	12424	A	5284	2	284
4374	12425	A	5285	1	785
					MTGLALLYSGVFVAFWACALAVACWV NSGTDWAGGIWLERLLPRSRLGFLAGG DPACAGVCYTIFDLGFRFDVAWFLTETS PFMWSNLGVLGLAISLVVGAAWGHSLT GSSIHVVEGS*KAPRDSKTKNLVSHIFCE AVAVYGIIMGNCSLSNMTEPFASATEPQG HRQFGN*PWQGYSHGLGAGLHRKPCLN LFCGVVGVGIVGTWGPCWQMPQNPTASL CKRFSIVEIFWQAPLALFGVIGRKFFKTS MSERWVTR
4375	12426	A	5286	2	350
4376	12427	A	5287	1	999
					NLLKTHKFULLGQDEDSLHSPVPAQMGN YQEYLKTLASPLREIDPDQPKRLHTFGNP FKQDKKGMIDEADEFVAGPQNKVKRP GEPNMSYVTKRRRSMALLRKPTPTC NNHVGGKGPPSASWFPSPNLIKPTLVH TDATIIHDGHEEKMENGQITPDGFLSKSA PSELINMTGDLMPNQVDSLDDFTLSK DGLIQNLVVTHL*EEPKTAASP*MTKKT Q*HLLWELCQIHYKSLLLWHKE/VNADI KHQLMKEVRKFRKYEIRIFILLEEVQGP LEMKKQFVEFTIKEAARFKRRVLIQYLE KVLEKINSHHLHNNISHINSRSSC
4377	12428	A	5288	329	661
					ITLSLSFFNLRPSFALLAQAGVHWRDL SLQPPPLRFK*FSYLKSPRSWDYGHAPP RPANSVLLVETGSLHVSQGGILPTSGDP PASASQSAGITGVTCARPPSLFS
4378	12429	A	5289	46	554
					NKTRKDPFPPYTPAHGHTPTPTSLPFG/C SAHGHLPKRGSHCDQPPSTCRPPVQSPV AHASQVAGRTWA*KRALHLPGGGVKRK GTGSPKAPRSGCGLPYKLGSTARAAGSC SPAIE/EPETFSPQGQPLPVNKGKLRVGG PSFQCAPRDSRSRYFQFGEEQGRAIEHQI P
4379	12430	B	529	110	719
					XGRQQHQRWHETPDIKLFGKWSTDDVQ INDISLQDYIAVKEYAKYLPHSAGRYA AKRFRKAQCPIVERLTNSMMMHGRNNG QEAHDCAHRQACLRDHNTCSQAKNLE VRGTAINSGPREDSTRIGRAGTVRRQAV DVSPLRRVNQAIWLLCTGAREAAFRNIK TIAECLADELINAAGSSNSYAINKKDEL ERVAKSNR*
4380	12431	A	5290	228	386

4381	12432	A	5291	3	257	GPRERETGRTATAVEPDSCEERTYSNDT KRWCSHPGGNGGVPERQHLG*ATGSW GAKPLRLAAATRASGNPGHRSCLKLETI F
4382	12433	A	5292	3	1379	NEFFGEGKTLQAARHFAAMKALQALQN EPIPERSPQNGESGKMDDDKDANKSEI SLVFEIALKRNMVVSFEVIKESGPPHMK FVTRVSVGEFSAEGEGNSKKLSKKRAAT TVLQELKKLPPLPVVEKPKVHFFKKRPKT IVKAGPEYGGGMNPISRLAQIQQAKKEK EPDYVLLSERGMP*RREFVMQVKVNE VATGTGPNKKAKKKKNVAVAMLLQLG YKASINLQDQLEKTGENKGWSDPTPGFP EPTNNTPKGILHLSPDVYQEMEASHHKV TS/GHYSRLFVTQRYEPTFKLFSSVYLPH RIVQSTFARHLLMNGTSSTAEIGLKGSS PIPLVPPVQPSKQLGIFSKGFKAFRVHYC DRQKWQRVCDLSDISPCADGL/SHAIGSS IEASHDQAALSALKQFSEQGLDPIDGSM NIEKGSLEKQAKHLIKVDHNPAPPGSIA HDCKISNSAV
4383	12434	A	5293	7	351	SSTSLIRKMQIKTTRYQNIPNMAKIKNA DNTKL/WSRILTNYWWEYRHLHK*KYV HKKTCNFMIAALFIKFLKWKFKHSST GE*IKL*DRHMTEYY*AIKKAQATDRM QHE
4384	12435	A	5294	3	1585	GEPL/LHHTTCH/NSKALIAFLAFLIIVTSI ALLVVLTNIDYDLHRKRSCNVDEQQELVE RYDESNLMNVQPIHADIMLETYHRRRIAD EGRLFLAEFQSIPRVFSKFKPIKEARKTHN QNKTRYVDILPYDYNRVELSEINGDAGS NYINASYIDGFKEPRKYIAAQGPRDET DDFWRMWEQKATVIVMVTRCEEGRNRN KCAEYWPSMEEGTRAFGECCCKDLTKH KRCPADYIIQKLNVNKKEKATGREVTHI QFTSWPDHGVPEDPHLLKLRRRVNAFS NFFSGPIVVHCSAGVGRTGTIYIGIDAMLE GLEAENKVDVYGYVVKLRRQRCLMVQ VEVCSNL*DYSHFGFLDLNLFQVIIMIFF KNPNSSQPQTVDLTKTKTW*SPWPML CIW
4385	12436	A	5295	1	1323	MEDSRKAQKRDTKIEREEQLYWPSRKS GKSKGDLVLHTTYKPSHSGGRAVSGLFG SPIPSLGSWTAFLDPPWARVEPIALKGLT QRSPNGGGHRVCFVIPPAPPDGSEQKKR LCSFRRKEQSLPGNLENSFGSCPRLSRQY VYESARTTALMRLGCPLKQIQLISQDLSP FEYRESLPMKDKQNKHQRLSINTIQETI ISPNELSKSPGTNSGETEIHDLSDREFKIA VLRTLKEIQDNTEKEFKLYQINLTKRIEII KKNQAEILELRNAIGIQKNASQSFNSRNG REEEIISELENRLFENTQRRQNKRIKNNK ACLQDLEYRLKRANL RVIGLKEEVEKAI GVESLFGIITENFPSLEQDINIQQVEGYG TPSRFNPKKTTSRHLIVKLPKIRDKERILK VTRENKQVT*NGTHICLAADFVVAL*A RREWH
4386	12437	A	5297	3	226	GSGCEQGCPPGRYGPGEQLCGCLNGGS CDAATGACRCPTGFLGTDNLTCPQGRF GPNCTHVC GCGQGAACDPVTGTCLCPP GRAGVRCERGCPQNRFGVGCHEHTCSCR NGGLCHASNGSCSCGLGWTGRHCELAC PPGRYGAACHLECSCHNNSTCEPATGTC RCGPGFYGQACEHPCPPGFHAGCQGL CRCQHGAPCDPISGRCLCPAGFHGHFCE RGCEPGSFGECHQRCDCDGGAPCDPV TGLCLCPPGRSGATCNLDCCRGGQFGPSC TLHCDCGGGADCDPVSGQCHCVDGYM GPTCREVGPSPRTRP*PRGAAAPLGS

						SGRTATSPVRRRAASAPTAPTCVGVGRGR PATL
4387	12438	A	5298	152	990	LLLIHSEKPFEDNLYGKALSSNSHLHGP RRLCT/GENPEE/CEQL*KAFSAISRDS SSH*GRKPVKVSEGFSDSHPLRHTGNHT MEQHSEMRNTLQKCSHY*ANYSVVFC S*LWESLECSIGF*GDLRINSGENAPFEHH QYWRAFWFSTFVKET/W*SIHTEK/PWK F*EEEEKAFSDASVLGK/HMELLPGCKTYE YINIGKFFSDSSLSCI/WRELTWRNP*ECN QC*DA/FSLNSSLSG/HQFSLGTKKYNHC FECGISFIQCLICRLDCWLINFFSLFFF
4388	12439	A	5299	1	181	EIEDLN*TITQLYLT*HLYRTLHRTPPAYK FFSSVHETFSRIDHVLEHKTSLENEF*RLK
4389	12440	A	530	443	565	QPGFGAGARAPNILTHKHLG/LLEFKTTG AQQQGF*LNESSF
4390	12441	A	5300	1	170	PPPPPFPLIPD*G*PPSPLSPGQLQSAPPP VLP CPDITLSYPGRRPVLGLSLMD
4391	12442	A	5301	846	1094	IPAL/P*FYFIFVYLNILKYLFFFFD/DGVL LCCPAWSAVA*SRLTATFASQVKRFSC SLLSSWYYRSVP/SSLANFCIFSRDG/SFIV LAMLVLNS*PQVILLPWPKVL*LPIMEC SSLTIAHCSNLNPGTSNPPASASK
4392	12443	A	5302	19	391	AYPLRGGRDFLRGGPSRSVLSVVPAR V*RRRRRLREEARGAMTSASTKVGEIFS AAGAAFTKLGETMQLHPVADSSPAGA KWTETEIEMLRAAVKRFGDDLNHISCVI KGPDKGHCETQGI
4393	12444	A	5303	1	338	SLIFSDSLSSISGTNTLAAFLSWMLPYIPW ILQARPALGLLHLLAACNVVGQSAT*PS PSLPLGLCSSSHSQ*GLF*PPVFKISPLITD NPNPFDLHLMDFIQKTIKISL
4394	12445	A	5304	3	180	
4395	12446	A	5305	1	518	RAAQSPCSPWSRLACSGGGGVIREEARG AMTSASTKVGEIFSAAGAAFTKLGETM QLHPVADSSPAGAKWTETEIEM/PEGCC EAIWGRS*SHQLCHQGTDSGPDKGHC*N ARYIEDFWASPPA*V/IPRKGPRRWASG VVFVHLLQLAPPKQLPVFPEGRGSPPIKE TERLM
4396	12447	A	5306	1	705	GAKFQRTSVPRTTGPGQLKCLEDKVS LETTELDEEKNTVELLTDRVLNRGRDQVD QLRTELMQERS/SSGRTWKCDKISLERQ NKDLKTRLASSEG/SPESLVPASLSLPRI SCCRERLPAEQRVKTVLRSTNRKLERKV N*LSLQIEDERHHVSDTKDQLSLRVKAL KRQVDEAKEEIERLDGLRWKKAQREVEE QHEVNEQLQARIKSLEKDSWRK/GFPLS C*VSSQKRRRAELR
4397	12448	A	5307	831	1159	DVKSXSFFFFLRWSL/NPFAQAGV*WHD LSSLQPLPHRFKQFSCLSLLSS*DYRRVPP *LANFLYF**RQGFTMLARLASNS*PHDP PASASQSAGITGMSHRTQKKQIS
4398	12449	A	5308	296	526	FNCCEEKFKKKPCFVSFLEGLERG*VK CQEHIPDTH***LLGLSEQINSDSRLRKEL NHFILFLEQLTCPPHSRER

4399	12450	A	5309	5424	5957	YNFFLNEMGSCSVAQAGVQWHNHSSLO P*TLG*SSYHPASAS*VAGTVCTCHHVQL VF/IFFFLR*SFALVAQAGVQWCDLGSLP PPPSGFERFSCGLPSSWDYRRPPLHLVN FFFLYF**RWGFTMLARLVNS*PHDVHP ASASQSAGITGMSHHVWLNINFFNCKSLI FSNVFRN
4400	12451	A	531	82	986	TMNTRNRGVNSGLGASPASRPTDRPDQ SGRQGELSPVEDQREGLEAAPKGPSRES VVHAGQRRTSAYTLIAPNINRRNEIQRIA ELELANLEK WKEQNRAPVHLVPRRLG GSQSETEVRQKQQLQLMQSKYKQKLKR EESVRIKKEAEEAELQKMKAIQREKSNK LEEKRLQENLRREAFREHQYKTAEFL /RQTEHRIARQKCLSKCCLWPTILNMGQ KLGLQDSLKAENRKLQKMKDEQHOK SELLELKRQQEQERAKIHQTEHRRVNN AFLDRL/RRQKSTRWPRAIWRLLYE
4401	12452	A	5310	2	237	IKRFSYLSLPNSWDYKVPSSMPG*FLYF* LR*GFTNVGQAGFEIP*PQNDNPLSSQS AGITGMSHHNRPPFLFYFLK
4402	12453	A	5311	36	386	LNHRKFMMLYYH*LLLFLFHF*DRVSV CHPGWSTVVNSQGFTAALTYWVK*SS CFNPPCVSWEPRGACHHALANFLIFCKN QVSLCLPRLVNS\WVQAILPSWPPRA GIYGV
4403	12454	A	5312	1	310	FFFFET/ESHVAQAGVQWGDGLL*SSP PGSSDSPASAS*ASGTTGA/QHHAQLIFV FSVETGFHPVSQDGLDLLTS*SARLSLPK SWDYRHEPLAPGLGFTF
4404	12455	A	5313	598	882	LIFLFSFFFFSFFFFFFFFFFFFFFFFFFFF FFFFFFFFLLLLLLLLLLLLLLLLLLLLLLLL LRQSL/DSVAQAGVQWRHLGSLQALPPR FAP
4405	12456	A	5314	439	1169	QSGHRYLYNLIHQVLCFTIFLFLRQDLAV L/TQAGVQWC/DSWQPRPPGLK/GTP TSA AQVAGTTGMCHH\TR*IFFFFFFFFFFFFF FFFFFFFFFFFFLRQSL/DSVAQAGVQWR NLGSLQPLPPRFKRFSCGLPSSWDYRN APHPANCCIF/M*RRGFTMLAKLVLSNG DSPASASQSAGIIGVSHHARPPRYFKKYI FCRDGGLTMLLGWS*TPGLKQSSHLGFP NFWDYRCEPPCLATLFI
4406	12457	A	5315	1	222	ETGSHFVTQAGV*WCNLGLLQPLTPGLK QFSLSPSSWDHKCVSPSPANSFCTLG K*RRVSTMLPPGWS\QTP
4407	12458	A	5316	1	234	LRQSFAGWPRLECNGTIPAYCNLHLLGS SNPPASSPRRLIFVVLVEMRFLYA*AG LELLSSDLPPWHRKVLGLQA
4408	12459	A	5317	1	196	FFLINLTLLIVTAQFIN*LDFIDSYSTICPK PPEYTFFSRA/PNGTFTTKDHILGFKISLN KYKSI
4409	12460	A	5318	1	477	SCWSPV\WGHPDRDREPPPS*LGIQSSPG VPQAALPPWSPASHQASATWAVLPLPP LQGPAREPPCPPHLRRHVQPIKTSVSL SAPPLPPPG*DLPEASFSQWACKGINKCL QGLGLVCRTEHKDLGLGLFGLVLAM VEVRGVDLTENNSGASVPRGR
4410	12461	A	5319	139	398	FYFFYFYFLRQSCSVNAGVQ*/HCLNSL QPPPPGFKRFSCSLPSRWDYKCPPPCTP NFCVFS/EMGFLHVGQAGLELMTSGDPP GFG

4411	12462	A	532	122	1340	EAASKTTKDNICSWKDDTIGCKEMPTSE NCPSFALHQKISDRNHGECREY GKTLCQ DSKPVQHERIHSSEKPNRCKECGKNFSN GHQLTIHQRLHVGEKPYKYEKCGKAFIS GSAFVKHGRIHTGEKPLKCKQCGKTISG SYQLTVHKSIHTGKKPYECGECGKAFLV YGKLTRHQSTHTGEKPFGECECGKAFST FSYL VQHQRHTSEKPYECKECGKAFSTS SPLAKHQRIHTGEKPYECKECGKSFTVY GQLTRHQSIHTGEKPFESIHAIEKPYRCK ECGRTFSRASYLVQHGRHTGEKPYECK ECGKAFSTGSYL VQHQRHTGEKPYECK ECGKAISRHQLT VHQRVHTGEKPYECK ECGKAFRVHVHLTQHRKIHTDVKPYEC KECGKTFSRASYL
4412	12463	A	5320	11	137	RWGFTKLPRLVSNWPQAILSPWLPKVL NNHREALYFSLY YISKYTEGQFRNRLYP GTICQDYLWRYLLFLFIFETESCTVIRLEC SGSLQPPPRFKQFTCLRLHSSWDYRWRP PPWPINFCSRVQTGFHHVGQGLDLV DLCDPPASASQSAGITGREHPAPGTYLW EGFKKSFKSRA* RSTLFFPLLH
4413	12464	A	5321	1	293	LERMSFGHIQTKEDILQENTIFIATEVQIQ PNPD* TPEAKAFIRCLSYRKEDRIDVH QLTCDPYLMPHMRMSVSTCSPAGAAIAS TSGASSSSSSN
4414	12465	A	5322	3	291	
4415	12466	A	5323	14	943	HRILEPLIFHFFFFSSAPPQPELLY/PASL TLPASPGREEVYPLPARLPSPRWEPLQV WLALGAVKLPLSPWSPNGLGKPPGT PKRRGALFCHMPGILTP/WMPGARWTKP PANPPST/TSPVPPKDG*KLQPGGLRGKP GPERGWNPPCP/RSRPPYLLC*PQTLPR A*CFPIPKMSFTGHSPCRASLGHLE/VGH GIPLWPRVCQRRKSRAFFVLFKGAACLF NVNNRKP*YLCNTE*YFNHVLDVHNI FITKQQUEST*PWLPRGVSWLGAGGGYQG AWDREAPPRPIKLPPTLASRMRSCHL
4416	12467	A	5324	12	486	
4417	12468	A	5325	51	390	DGVLPSSLGWVEMCGSSAPLLRSPVDRL DGMWGVCHPAGWSIVAQSQFTAASNLL ASRAT/LSLPSSWDYRRVPPHSAHFKFFL *KWGLAMLPRVLNSWSQVILLQPPKV LEL
4418	12469	A	5326	279	380	
4419	12470	A	5327	618	818	
4420	12471	A	5328	1	197	
4421	12472	A	5329	2	498	CPRMTPKDFQ*PVL/VVTNLLGHVIDIKW MSIAFINDRAWPSAFVSDENHARIQCDG QHRFEVSSELPEDETDSSTVLDLDHOG LGPPPPPAEPDPLQLLLQQLFGLGQLSCV VGPGPWRLSSARDKQNMVSIHKVKR POSPLRAVYWPLRYCILPSRRATVN
4422	12473	A	533	456	824	DRVSLSPRLECSGVILAQCNLHLP/GFNR FSTLGLPSRLGITGHAPLCLGQFFVFLVE DGGFHHVGQAQLELLTSSDPPTSAVPKC RDYRHEPLRLACCSFLKQENIHNCWVRI YIRIFQTN
4423	12474	A	5330	600	811	PIWLSLSPWHFINQRKEKKK**DIVKREK PLMGLSTLTSI*MQSKPRKEHQINLKSEI K*LQDLSQYFGR
4424	12475	A	5331	1	75	FFFFFFFFFKLAMFVFFLFFIFSK*KEIVLS QFLFVFL/TYLFYVFTSLKVALKISRDIKST FLRVALFFFLNNSWEFCGSTAFPSVSML CMF*LLL*FFFFFFFFFKLAMFVFFLFFIF SK

4425	12476	A	5332	949	1711	VTIPLIPDLKGSSCVGPPKP*DCRHWTPC LTLIYFFFFKVESPSVAHAGVQWHDLSL LTLSPDQV/HSPVSAF*VAGIQG/MHHHA RL/FFFFFFFLRQSL/SSVAQAREQWCYH GSLQPPPSGFKRFSLSLPSSWDYRCPP HLA/DFVFLIEMGFTMLTRLVSNS*PQ/C DLPASASQTAWITGLSHRAWLNFFCIFI YGVSPCWPGWSLTPDLK*SACLSL*CW DYKCEPPCPAQFTFIRKDSFADVCSVS
4426	12477	C	5333	11	154	MESRSVARLECNGAISAHCNLHLLGSND SPASASRVAGTTGTATTPG*
4427	12478	C	5334	163	270	MNKMESLFYCFNADILIKQDYFHHQH LTYITKPV*
4428	12479	A	5335	92	404	WLQICVSGCICT*MALYICIN/VVVVKV VLFYEDVCIKAVK*AFHFHNLMCVYICM CVCVWNIEGLYIPPQRYIHMAVLLHRSN SQTGPSIRYKFKISFIGFI
4429	12480	A	5336	2	1100	FALAARLQEFGRKYFTESGLVGLLEQA AASFSMAGMYEAVNEVYKVLPIHEANR DAKKLSTIHGKLQEAFSKIVHQSTGWER MFGTYFRVGFYGTKFGDLDEQEFVYKE PAITKLAESHRLLEGFYGERFGEDVVEVI KDSNPVDKCKLDPNKAYIQITYVEPYFD TYEMKDRITYFRQKLQSSVRMYCTPFT LDGRAHGGTSMEQFQKGRPLDYVSCL FPYIKTRG/PMSLIKRRSSLHPFEVAIED MQKKTQELAFATHQDPADPKMLQMV LQGSVGHQVNQGPLGSCPGFFCSGNT** PKALSDIH*KLATLAFKDFTKRCEDALR KNKSLIGPDQKEYQRELGEKLSSALKRA LPAT
4430	12481	A	5337	48	1057	RCWENCTSTCKTMKSDPYLR/PYTTINSK WIKDLNVRPETIEENIGEFKFLDMLGND FLDITPKAQSTKTK/DKWDYIKPKSF/CTV KETVNKMKQ*PTD/W*KIFVRHIYGKGL VSKIYKEFIQLNF*KWAKDLKRHFSEDD TQMANRYIKGCST*LIKEMHFKNHSKY YLSPVRLAVIKKNKNNKC/W*WCGIKGT L/LHCWWECLVQPLWKTEWKFLARKIK LPYDPAIPLGIYSK*MKSPCKYICS/RV FIAALFIVA/K/TWRQLKCPLT/V*IRKLCI YMPYTPMEYYPPLKTKKNPTISCHLLPT WMGLKDTVLNEISQTEKKILHNFTIYVES KKKI
4431	12482	A	5338	2	409	PLALALAMAYPSCPGDAHGPPRPGPLSP PS*PASVP/TSP/PQSSA*FLCPQSYVEGL TPRILPAGGGHVPCSRPSSSGLASVSAP RWGALLPGPCPTSLSSGCRKGRASPRA HPPPTASLCTALWPPCFSP*PGVGLGNG LSLLPRRCTWPAAARSTVSSLLACLPNS PLNLLRDSSVLSHTQLRGSPHGFYPLEGA MFPAPALPPHQALPRYQPPGELCCCLD HALLSPRDVGKGGPALELTHPPQQACV LRSGHLASRLHNL
4432	12483	A	5339	32	323	KFHLGGGGWFPPLFGPGGARGVGS*VR GFRPPWAPPLNPPFFKPQNSPGLVVFAF RPSSSGG/PGPGNSPHPGGQFG*QKFRP CPSAWGTKGGFP
4433	12484	A	534	1	2278	
4434	12485	A	5341	4	329	IIAHCKLKRPSNDPPQPPSSWDCRHAPP HPAN*FFF*EMGSCHVAQTSSQTPALNPS RYPPTSASQGAETVMESHCAQLYPCFLT KEK/FSHS*IRRLLSETSNGEY
4435	12486	A	5342	3	274	FQSQNIKLNLMGVLCFETEASVT*AG LQWLDLSSLQPPPGFKQ/FSCLSLSSW DYRSPRGPVNFCIFSGDEVSPYWSGWS QTSCLK

4436	12487	A	5343	1	1075	MVDGTL L L L L L S E A L A L T Q T W A I G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q E G S E Y W D R E T R S A R D T A Q I F R V N L R T L A R L Y * Q S E R R P G S H T L Q W M H G C E L G P D N A S F R G Y E Q F A Y D G K D Y L T L N E D L R S W T A V D T A A Q I S E Q K S N D A S E A D H Q R P V L Q A T F V D S F P K * L Y E G K E T F L H L E P P K T H V L H H P I S D H E A T L R C W A L G F Y P A E I T L T W Q Q D G E G H T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W E A R F P S P P I L P S W A S L L G L V L L G S V V S E A V V A A V I W R K K S S G H F L P T G K G G S Y F K G
4437	12488	A	5344	58	426	K L Q L L * F F F W F F C L F T Y F L E T V E C S G A I A H C S L K L L G S S H P P A S A S L V A K I T G A C H P A W L I * V V L I V L F K R K W Q S H L K L M V E K R F L S E G Q I L S V Y H F R V P L L Q N D R N L A Q I I L G R K R E M Y
4438	12489	A	5345	3	284	K K I L R K K I L R K S S V * I * D * S S Q P E N I P * K Q F L S N H P K C T I T L S M R N M S I M K K G G R I S E D F I K L F F P S L L S H L L V I E W G L Y I E I Y L T P P N N T F
4439	12490	A	5346	2	225	T L P C T L S T S S T P W S A S S Q E R E M S F G D G * P V G * P P L T A V P C C S V W G L R R L * G E R T K L G I G A A G G F H S Y D G N T Q T
4440	12491	A	5347	3	104	W S T V A R S * L T A T S C S F C L S P P S S W D C R R V P P C L A / S F H F Q Y I A L N N * A * A I I L P Q S K V L G L * A S A L Q V A G T A G V Y H H A W
4441	12492	A	5348	2	392	T G K N E I Y C I C F I D L E Y Q * K I G L L L H I G D K E E Y S / W N S G Y F I G Y C L E L P C P V V K V S G N * N D S I E A A V L M T T P S K I K I * V T L Q S K E A S P I K V L T Q V I G D I K G I L E N G H Y K Y Q L * Q F F K L Q K G N D N H
4442	12493	A	5349	2	67	A A E D * H C P I A S E T Y K T I T E L W V T L P V E G K S V P F L I N T E A T H S T L P S F Q G C V S L A S I T V V G I D G Q A S K P L K T P Q L W C Q L G Q H S F M H S F L V I R T F P A P L L G R D I L T N L S A S L T I P G L E P H L I A A F C S S S K P P S H P P L V S L H L K P Q V * D R L G N L Q D H H R C F G
4443	12494	A	535	750	1053	P S T L S S L I S R H D D E A T R T S T S E G L E E G E V E G E T L L I V E S E D Q A S V D L S H D Q S G G I S L N S D E G D V S W M E E Q L S Y F C D K C Q K W I P A S K E L L K S F D L S I P V
4444	12495	A	5350	2	275	E T E S C S V A R L E C S G M I S A H C N L C L P D T G N S P A S A S * V A G I I G A C H H A Q L I F V F L V E T E F H H V F H H V G Q A S L E F L N L V I P P R P P K A L G L Q G
4445	12496	A	5351	3	1031	S S A P E A A K K P T P C H R C R G L V D K F N Q G M V D T A K K N F G G G N T A W E E K T L S K Y E S S E I R L L E I L E G L C E S S D F E C N Q M L E A Q E E H L E A W W L Q L K S E Y P D L F E W F C V K T L K V C C V P G T Y G P D C L A C Q G G S Q R P C S G N G H C S G D G S R Q G D G S C R C H M G Y Q G P L C I D C M D R L L Q L R S R N E T H S I C T A C D E S C K T C F G P * P T G L R R S C E V G W V L D E G A C V D V E K C A A Q T P P C S A A Q F C K N A N G S Y T C E A E G D S S W V G C P G K G P G N C K Q C I S G Y A R E H G Q C A D V E R V P H * P E K T L C E E K T K T C Y N T P G S Y V C V C P D G F E E T / R R C L C A A G R R L K P Q K G E S P T Q L P L P
4446	12497	A	5352	206	330	K M L Q L A L Q S C I K V R T L N S R H L G A G V T A H E E * C P C C H P M I K Q
4447	12498	A	5353	1	8271	
4448	12499	A	5354	2	10028	



4449	12500	A	5355	2	5217	APLDGEVELLQQKLREKLDEFNELAIQK ESADRQVLMQEEEEIKRLEEMNINIRKKV AQLQEEVEKQKNIVKGLEQDKEVLKKQ QMSSLLLASTLQSTLDAGRCPEPPSGSP EGPEIQLEVTQRALLRRESEVLDLKEQLE KMKGDLESKNEEILHLNLKLDQMNSQT AVSLRELEEENTSLKVITYTRSSEIEELKAT IENLQENQKRLQKEKAEIEQLHEVIEKL QHLSLMGPVVHEVSDSQAGSLQSELLC
4450	12501	B	5356	224	326	XSSSDGNLRPEAITAIVVFSLLAALLAV GLALL*
4451	12502	A	5357	87	558	STFFPAIKHWVDLTAQRGHCLSPRSHSN EGRQMQUERGPRWAGSPAPSPWSPEGPG PRLHGRTERKERGLWGLDTPQRKVGS SRGVGPEPQHT*AAGTAKQRQHAAQSPP HGCPQPLPTSPPEPSEAGVSVAADVYP ATRSPGQCWWLQQAFAFR
4452	12503	A	5358	3	713	TDRGCRGRDTFHEPELG/PKTPGPGAPLQ VPLAGDAVGGASARSPFLGAGNPPPIPW RTPAGAASGAGPAAPAGPLGPSLG/RKY RPLLRMRALFCLHPPAPAPMATCVHKP SLLSSRSSTS/SAALLAVGAGTVGAE/RF GRSGRRRAPTPGPVARSSSPMQPRPGPLR TPRRRCRAACPSRSPLLHLSPIAV*PWG KAVPSLGSQIHPVLNSREEGTSKTLPLRS REDGAHFYIFI
4453	12504	A	5359	2	807	RPQGFPAWRLPSRRGATPGRLPRS*PRPH PRPEPGVRVGPWVIESVR/HQDCSGRSP GQTPTCEDRAPSGKGSALGRGSLGPWTL IGSGRG/RSPGKLGSPGPAKAF*RRR/RA SKVAPGPLDGWPRIAQAWAREKGKHLA WGTGGSWPPSHAPGHQLGFQKQPLGN QREWGQNLGIQDL*GQVDPNRPPPLSGP GDRHLTGKPSGREGALSQGPQGRHSPGR PQQQASSCCERSHPGLPPVTTHCPGVQ WASCPGWGCLARCSRPA
4454	12505	A	536	426	634	VFCYSRTNWNKTEINRKKFGKLPISWKL SSTLLNNQ/LVSEENKREIKKYPDINENE DTTYQNLWNEKQC
4455	12506	A	5360	1	412	FFFFLRWSL/NSV/SQAGVQWWDLSELLQ LLPGFKQFSCSLSSWDYGCPPRPANFL HF**RQGFTMLFRLVSNS*PHDSPISASQS AGVIGVSHRARPSCLLAYFSEFVSKWK QSSTKALPCGFRMLCPVLTPEK
4456	12507	A	5361	3	884	YLSIHQVYGKEACIPCGPGSKNNQDHSV CYSDCFFYHEKENQSLHYDFSNLSSVGS LMNGPSFTSKGTKYFHFFNISLCGHEGK KMALCTNNITDFNVKEIVAGSDDYTNL VGAFVCQSTIIPSES/TGVSEQPYHHNPIL ADTFIGVTVETILKNINIKEDMFPVPTSQI PDVHFFYKSSTATTSCINGRSTAVKMRC NPTKSGAGVISVPIKCPAGTCDGCTFYFL WESAEACPLCTEHDFHEIEGACKRGFQE TLYVWNEPKWCIKGISLPEKKLATCETV DFWLKVGAGV

4457	12508	A	5362	3	2697	CSVKECLQASAKLPSAPASVSLLCLLVA KVWRRLRWQEAASFSCASGEYLEMKNQ VCSKCGEGTYSLGSGIKFDEWDELPAGF SNIATFMDTVVGPSDSRPDGCNNSSWIP RGNYIESNRDDCTVSLIYAVHLKKSgyv FFEYQYVDNNIFFEFFIQNDQCQEMDTT DKWVKLTDNGEWGSHSVMLKSGTNILY WRTTGILMGSKAVKPVLVKNITIEGVAY TSECFCKPGTFSNKPFSFNCQSCKIIDPF LKRFFYVAEEGSSECTERPPCTTKDYFQI HTPCDEEGKTQIMYK WIEPKICREDLTD AIRLPPSGEKKDCPPCNPFGYNNGSSSCH PCPPGTFSDDGTKECRPCAGTEPALGFY KWWNVLPGNMKTSCFNVGNSKCDGMN GWEVAGDHIQSGAGGSDNDYLILNLHIP GFKPPTSMTGATGSELGRITVFETLCSA DCVLVFMVDINRKSTNVVESWGGTKEK QAYTHIIFKNATFTFTWAFPEN*FRVQD NRRFINDMVKIYSITATNAVDGVASSCR ACALGSEQSGSSCVPCPPGHYIEKETNQC KECPPDTYLSIHQVYGKEACIPCGPGSKN NQGKKMALCTNNITDFTVKEIVAGSDDY TNLVGAFVCQSTIIPSESKGFRAALSSQSI ILADTFIGVTVETTLKNINIKEDMFPVPTS QIPDVHFFYKTIYRQIIDIKCPAGTCDGCT FYFLWESAEACPLCTEHDFHEIEGACKR GFQETLYVWNEPKWCIKGISLPEKKLAT CETVDFWLKVGAGVGAVTAVLLVALTC YFWKKNQKLEYKYSKLVMITNSKECEL PAADSCAIMEGEDNEEEVVYSNKQSLLG KLKSLATKTAIGVFGGPWSLGYVISCQY SETRSSCIISVHAKNEILAEIEE
4458	12509	A	5363	1	1146	NFDSKRRTVRNLRIREDIKYLRLNDPN SAHYDPKTRAMRENPYANAGKNPDEVS YAGDNFVRYTGD TISMAQTQLSVSSMS SHFISAHKTFGIV*SLFSRSIQ*CSCQLTK MFRITLVFAWEA\YDKGSEVHL\QADP/T KLELLYKS\FKVKK\EDFKEQKESILEK YGGQEHLDAAPAEALLA\QTEDYVEYSR HGTVIKQGERAVACSKYEEDVKIHNHHTH IWGSYWKEGRRGNKCCHSFFKYSYCTG EAGKEIVNSEECINEITGEESVKKPQTLN ELHQEKLKEEKKKKKKKKKKHRKSSSD SDDEKMGHVKSNAKALNA*EARLLHVKE TMQNDERKRP\YNSMY*TSRPIEEEMEA YRMK\RQRPDDPMASFLGQ
4459	12510	A	5364	3	1589	APALKVILRYT*TDAPAIWWLDPELTG CAKPFVFTQGHVSNRFFPCFDTPAAK CTYSVAVKAPSGVQELMSATRSAYMEE EGVFHFHMEHPVPAYLVALVAGDLKPG DIGPTSRVWAEPCLLPATSKLSGAVEQ WLSAAERLYGPYMWGRYDIVFLPPSFPI VAMENPCLTFHSSILESDEFLVIDVIHEVA HSWFGNAV TNATWEEMWLSEGLATYA QRRITTETYGAFTCLETAFRLDALHRQ MKLLGEDSPVSKLQVKLEPGVNPShLRN LFTYEKGycFVYYLSQLCGDPQRFDDFL RAYVGE\YKFTSVVAQDLLDSFLSFFPEL KEQSVDCRAGLEFERWLNATGPPLAEPD LSQGSSLTRPVEGLFQLWTAEPDQAAA SASAIISKWRTFQTALFLDRLLDGSPLP QEVVMSLSKCYSSLLDSMNAEIRIRWLQ IVVRNDYYSLT/FHRVRRFPGRARCHAC YTIPLYEDLCTGALKSFALEVfyQTQGR HPNLRRAIQQILSQGLGFQHRARP

4460	12511	A	5365	1	418	FMGGVNRADENIDKYRASIRGKKWYSS PLLFCFELVLQNAWQLHKTIDEKPVDFL EFRRRVVCHYLETHGHPPEPGQKGRPQK RNDSRYEGP*IQVDSPNQKQTRCAEC HKNTTFRCEKCDVALHVKCSVEYHTE
4461	12512	A	5366	1	205	KKFSCGLKKIFHEKNCQST*QISLLSYFK KLQQPQLSSTTL/SQQPSTLRQNPPAK RL*LEGSDAG
4462	12513	A	5367	1	389	CRFNAISSKITADFTVFGGFLLEVHKVIL KCKWKYYKSRIVKTGFKKTQLS/GLILH NNKT*YTSIIKTELTKYRHRMENPEIDL HRFDQMIFDEGIKVIQ*GKERLFNQWCW SRLRCICLKFSITNGQ
4463	12514	A	5368	2	300	TFPNLMTNMNLQIQEAQ*IPSWKNSE/RS Q/SRHLIKLLKIKGERILKEQKLITYKG CSIRLRGDFSPETTEARK*WDDIFKVLKE QVSTKNLIFSXTVL
4464	12515	A	5369	199	494	
4465	12516	A	537	1190	2097	SSCLKILNITLAKSLL/CLDISVCYLLD TGICYCLLDISVCYCLLDISICYCLLDTSV CYCLLDISVCYCLLDNISICYLLDTGICYC LLDISVCYCLLDISVCYCLLDISVCYCLL DISVCYLLDISVCYCLLDISVCCCLLDIS VCYCLLDISVCYLLDISICYCLLDISVCY CLLDISVCYCLLDISICYCLLDISVCYCLL DISVCNCLLDISFCYLLDISVCYCLLDIS VCYCLLDISVCYLLDISVCYCLLDISVC YCLLDISVCYLLDNSVCYCLLDISICCC LLDISH
4466	12517	A	5370	256	514	
4467	12518	A	5371	2	1340	SLDLGGISTVVVNGYDVVKECLVHQSEI FADRPCLPLFMKMTKMGGLLKSRYGR GWVDHRRLAVNSFRYFGYGOKSFESKIL /EKETKFFNGCYWKHTKVGPFDF*TV**R MLFSNITNLHFWEERFHFMQGHRFFRH MDWSYFRWKMWNAASASVFLYNAFP W/WA/FLPFGKHQQLFRK/WTAVVYDFL SRLIEKASVNRKPQLPQHFVDAYLDEMD QGKNDPSSTFSKENLIFSVGELIAGTETT TNVLRWAILFMALYPNIQGVQKEIDLI MGPNKGPSLGR/RNAKCPYTEAVLHEVL RFAGNIVPLGIFHATSEASLRGYSIPKGT TUITKP*FLYHLGWKKVPGEDPQKVFP ERFPGTSSGIFWPQEGKLWVPFPLGRRH CPWENTLARMEMVLFFSSIASEVSFAFS HMN*FQI*SPRLGMTLQPPYLYICAERR
4468	12519	A	5372	135	273	
4469	12520	A	5373	1	344	LNTLPEVPFTPLSCLPSLSLSS*LAPSPFICI CYAIVP/PPFLLPSDLADPSSHPGLPFLFP PHSPRHAPSAPPSKKKKKKKKKKKKTTA PVQASLGTSSLYPLGGSETGPTWS
4470	12521	A	5374	1	724	GRRGRGRAGSRAGRRGGAQAAALVNR GGGPIRNYSDVAGGAAGG\GGR\NRPAP YSRPKQLPDKWQHDLFDSGFGGG\AAG VETGGKLLVSNLDFGVSDADIQELFAE FGER*RAAVHYDRSGRSLGTADVHFER KADALKAMKQYNGVPLDGRPMNIQL VTSQIDAQRRPAQ\SVNRGGMTRNRGA GGF\GGWVDGTRKGT\RGGA\RGRRGA GRNSKQQLSAEELDAQLDAYNARMDS
4471	12522	A	5375	37	331	GLLCQASGPQAPGWPAGLGRRGQGS LPVPPRPVPA*/APGHTCHAL/GKIPF*VPL PLQ*GPPETHLREPPPGPCPPS/PVSPYQ GFLQPGGRAGGDRD

4472	12523	A	5376	1	385	FFFFFFFETETCSVA*AGVQWRDL* LQPPPPGFKRFLCLSRPSSWDYRCTSPYLAH F*FLVETGFHHVQGAGLELLTSSDPPI SASQAGITGVSHCTWPKLTSTLMNVFPL NIILLYLVILAK
4473	12524	A	5377	21	352	PTHPWPPTVLEATAPGSEYFFF*DAVLLS SRRLECSG/SISAHCDLHLPSSSDSPSSVP QVAWIIQVRHHVQLIFVFLVEMGFRHVD QAGLK/IA*PQVIHPPRPHKVLGLQV
4474	12525	A	5378	2	545	TCLGFFQMFFLGLSIFVCYILLKFDCVFIF SSNLGSLIFVCYILLKFDCVFIFSSQLPFFT FYMDYSNPLGLSMSSLRIS*KTF*MYG*V LYFFF*KRNSQCFFPNRDYFWIVCSSSV DLFCTLFFTSCPHQOPSCSPPPGNGKGA PLPTVTLEALKMMMVFFIGLSSRIRGRS WKSP
4475	12526	A	5379	545	1462	GYFPCFIFPVATS*QSIGVVNF*LFEYFVY IYIFEGFWGGLICLVSSVCLFQVYFSFA KIIIEPPGFKTTLPPSTLVNNWELTSLHQP K/RPANFVIFGKRQGFHVGPGLNSGPHA IRPASASQSTGITGVSHCACALNFITEP
4476	12527	A	538	163	372	IRQRKAKLVVLAFFNRRLRKPDIIFYAG VGKIVKKKYSGFFIELVTTCGKNYLMCA LAVIDPRDSNIIRS
4477	12528	A	5380	2	243	GFKQFSCLSHPSSWDYRCAPHPPTNF*F LVEPGFHHVQGAGLELPTSGDLPALASQ SAGITGVSHHPWPMSALNSKNVR
4478	12529	A	5381	1	328	SPETGSCSGAQAGVQWHDLGSLQP*LGL K*SSYLSLLSNWDYRCA/PPRLANFLFFV QAGSCHLAQAGLELLSSCHLPALVSQNA GITGVSHHARAGSCMEENTSLWTL
4479	12530	A	5382	2568	3052	RGTEGRRVKSSKAGFFCFVLCFVLRWS LTLAQAGVQRHDLSSLQPPPTFK*FSC LSLPSSWDYRRPPRSG*F/SFVFLVETGF HQVGQAGLELLTSGDPPASASQSAGITG VSHHAQPQLDLEPPVCGQRMALLLE RLPETVTCLFPLSELCCRAR
4480	12531	A	5383	2	306	FFEMESCSAAQAGVQWHPNSSLQPLPG FKQFSCLSLPSSWDYRRAPHPANFEFL VDARFYHVGQAGLELLTSSDLLASAS*S AGITGMSHHGWP*ATF
4481	12532	A	5384	141	414	IRITEGGAQASVVFVKTPQV/WLGTVAHTC SPSTLRSRGGWIT*VQEFKTSQSNRNRQ CNLVWSLKLTSILLTFELDSIRQEEGKLV RRWGR
4482	12533	A	5385	2	287	GRVGNNKKFGGRISLC/QPGWSAVTQLQ LIVTLNSWAERFSQDLPS*DYRCTCLA NFLTFCKDECLAMLLRLVLSWPQGIPL PQLLKVLELQV
4483	12534	A	5386	663	1014	ILKHYPSSQISSILQRKHTRQLSASLITNAK VFFQASRFNVSSHILALLQENIFYFNTPK VICKPG/CVIRITF*KL*IASQVRWLTPVIP ALWEAEAGRSRGQGIKTILANTVKPRLY
4484	12535	A	5387	3	208	EDVNRWRDIPSPWIGRVRIVRMSVLAPNP INNTYINTEFLILI*Y*YRNTSIPIKISGRFF VLLRENEN
4485	12536	A	5388	190	261	ISIF/CFFKTDSSCVAQAGVQ**NLGSLQ/P CNLQPLPPGFK*FSCLSLLSNWDYRCAPP /HPNFCIFSRDGISP*LSILPTTPIKVARKI LI

4486	12537	A	5389	31	1431	RETRSCWAHYHAESSKHQKAKLKDSRK ARRSIELIGPGSSQKGGDICSILHSSKLGI LCYSKTGNMGGWEGGMQLRVSSSENSM GKSSRERAAADLPQGSCWHELPGRLLINT RISLKPRHVWNLSSVLCQVVKKVKSQM MFHMPITSAMQGDRLGICVTQFDPKLE RGLVCAPESLHTVHAALISVEKIPYFRGP LQTKAKFHITVGHETVMGRMLMFFSPAPD NFDQEPILDSFNFSQEYLFQEQYLSKDLT PAVTDNDEADKKAGQATEGHCPRQQW ALVEFEKPV/YLPSAVPGDWLQARCGHS PNTCRLAFHGGQSCSTG*RTGT/NADSF RLKVYKLLKHKHGLVERAMDDYSVIGRS LFKKETNIQLFVGLKVHLSTGELGIDSFAF GQSGKFKIHIPGGLSPESKKDPDTPPSKT GPGWPVGGQPGRRRSPSGANPHKMGW LTRPFKRYVFDTHKRMVQSP
4487	12538	A	539	995	1192	IILGNLTACSFYTSSLNAVWLIKSAMLQL YFIFFFGDRPSLCHPGWSAVVQSLLTAT STSWAQAE
4488	12539	A	5390	1	421	FFFW*GTESQLLPQCSGAIHAHCSL*LPG SSEPPTSAS*VPETIGTY/RHAWLFFFFNL FFVETGSHYVAQAGFEPLGSNDPPAPQP KLLGITGMRHHSRPELLPLTVPMWSWESQ DGETEDFCAMETWKVNITCLAQTPRL
4489	12540	A	5391	1105	1497	LFRTSLLVIAFLPKKNFFF*HYA*SYNVH PNTARKIKPEFRAVRVSFLLSERMSNIFFF FFDTEFHSVTRLECTG/T*SSTHCDPRLP GFEQILPASASQSSWDSPACATHARLIFV FLVETGFLHVGQAG
4490	12541	A	5392	109	695	LLLIPSAVTSYPPKDLPWGGMILSKPPLL GSMLANNCIVAGGCS*SSTLPS*LSSWRV GPQHLPRHARPPHQVQYIISQDGVQHL LPQEYVVVPEGHIIQGGQKGRITHIQYEQ GAPFLOESQIQYVPVSPGQQLVTQAQLE AAAHSAVTAVADAAMAQAPGPVWLQD EDKCPKHNSNKLQHPRASKYDVITPGR
4491	12542	A	5393	1	405	
4492	12543	A	5394	203	458	
4493	12544	A	5395	2	1185	LILNKKSRTRRSFFRRRHGSPHGFAPWRP SRLAEPGELG*REREGYNNPPISGENLIG LSRARRPHNAIFVNFEDDEVPKQPLEAA AQ/TWRRVCTNP/VDRKVEEELRKASPA LRLAPLFDIRPIWSRNAVKANITVHPNRF KAWLPFIAYYMITGPWRSLWIRFGYDPA RKNPDAKDL/YQVLDFAIRJRCGMKQGYA PSDLPVKAKRSTYNYSPLITVKKTSVQL VTMHDLEAWPWPRRGRSGARKPASSKY KLKVSLLQTLRDSVYIFREGALPPYRQM FYQLCDLNVEELQKIIHRNDGAEDFLA QERGWGGCLPQGPDEF/RGDTMSPMIR ETIGSKRPALFSSSAKADGGKEQLTYES GEDEEDEVEEEEEEDFKPSDGSSENMEN NQNF
4494	12545	C	5396	95	295	MSTIKAPXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXLSSLRIJLFQNIYLYWDKIT FLYCEHTVGAQ*
4495	12546	C	5397	262	390	
4496	12547	C	5398	118	132	
4497	12548	A	5399	109	559	QFLHRLVHDSGEVWMKLVE**NTLLAK MVSISWPRDLPASASQAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHPHP PGRRHVHGLLHWCAGVPP*QPGKH
4498	12549	A	540	77	199	SKSRPIASNKIEAIKSLPAKPPGPDGFAT EFYQTFKEEL

4499	12550	A	5400	1	362	FFFFLRRSL/SSVPQAGVQ*HDLSSLQPP/ PPGFTPFSCSLPSSWDYRCPPPPAKFLL YF**RRGFTMLARMVVIS*PRDPPASASQ SAGITGVSHRARPPPPQFFIQLPLYNIHTL EGR
4500	12551	A	5401	2	462	NPPTSAS*VAGTTGACYHTRLILVCRDR VSPCCP/VLVFFFF*DRVAQAGVQWHG LGSTCQPCPPGFKRFLLPSPALSPSS WEYRHPPPPRANFFCIVFVETGFTVLAR MVIS*PRHLPALASQSAGITGLSHCARP VDSFLATSIY
4501	12552	A	5402	3	352	SSRPGSCRRGAVRAAIRYVRLRAVPSGG GEPPSGAPLQPSWK*AFARPGMLRCSPM SQAPSRSAAVLFEPLAEWMLHCA*QDEV RLGGH*GRRGPLLLDRSRA*RESPAEVRP ARE
4502	12553	A	5403	3	286	SVAQVGMHGHSLGSLQPLPPGLK*SSHL NLPSSWDYRHAPPHLANFCIFFVETGFR HAIQAGLKLSSSNWPTLASQSVVITGV SHRAQPC*TF
4503	12554	A	5404	73	542	VLIFFFFLKLSL/DSVA*AGVQWCNLSSL QPPSPGFK*FSCSLSSWDYRCVPPSPA NFFIFLVETGFTVLARMVIS*PHDPPTL ASQSVGITGMSHCPWTDLIF**CKRDTLC IPMSLS**FKVPKGNLIWKLLGKFGGLP LGIONAYFWIV
4504	12555	A	5405	1	397	EMESSSVTQA*VQWHDALLQPPPPRFN RFSCSLSSWDYRCPPLSPANFCIFSRD/ MGFIVLARLVNS*PNDLPASASQSAGIT SVTHRIWSKIFRVDNDHYILFSSMELN VPTIVLCYHPQSSNMYS
4505	12556	A	5406	72	243	EPMTQPQVSMFSLRQPMKTTGMRIAMQE KVTQNTQSS*KJFRFPYLGIVSLVISI
4506	12557	A	5407	34	420	MLYSHDPELS*QVLTALYAVFPFVPV DFL*I*FPSALVSIGGSRL/PVLSHWFLDL RVFHF*FEKAHL*KLCGNP/WLSALLSTF KVM*ERLVDQ*LSMAKTTE*EPMTQVS MFSCGRVEEFRHPC
4507	12558	A	5408	3	316	FFNFSSRQGLCHPSWSAVTQSRITVASIF RVQGSLLSLGSW/DARHVPCLANF* FFCRD/RGLVMLPMSVSNWAQAILPPW LPSIGITGVSHHVWLASLFV
4508	12559	A	5409	905	1291	RGADTCLGFQVSADLHHLFSLFCSVAQ AGVQWRNLGSLQPPPPGFKLSCSLSS WDYRHAPP/RPG*FFVFLVETGFTRVGQ AGL*LLTSGDPPASASQTA/RGL*GMSH LASPIYLDYFK*NFNKP
4509	12560	A	541	212	322	
4510	12561	A	5410	2	308	FLRHNLAVTQPGAQWRLSSLQPLPPEL KPSSHFSPLSSWEYRCEPPHPANF*FLVE TGFHHVAQAGLEFLASSDPPTSAFLNAG VTGVNHSAWLCFSYLL
4511	12562	A	5411	3	368	HRGESVWNICRWGTLR*GKIGKMTRAH CLEFIGALIVSITSPAPFEAPKWKNDLD *TLTHGRPVSVLLAKKCDHG/KDECNRN SSLKMGQIYMEHSFVG*IETSAKENVNF DEASRCLDAK
4512	12563	A	5412	73	380	GQALQWCVSVMCSCHSHPCV*VLWV CVCLCISMCMYSYACVLGYTKFGVCTE KNKQNCNCTGNRSTQGLPLNRHTGSFRF WLDHFPLASPKGTLRSLSP
4513	12564	A	5413	1	400	NSEGAAWIQPPAGEPTWGQSGGTQORAG AMP PGDYS*SQGHPFLH/RAPPLTRNR RIFLRAPSPVLEDPRKPPSRGQQL*DA LHHVLVAQLREGMLGQPRPHPPPKPIK *SQHA*QLPAGEPEVGPGAGDR

4514	12565	A	5414	1	895	LRRARPRGWAGREAGPHPH*LRCRSSSA ALRPAPFTRPGTGETGLDRTEGRDQTSV NSAT/RLPNTPSRISAGGSSLQTRGLPGS SPQQENRPGDKAEAPKGQE/RMPPGDYF VIPRTPLSPPAPPPLTRNRRIFLRRAPSPV LERPEASKQRTATPLRRTAPCASGAAQ RGDVSGRKGVCKAGEQG*PPNNPRLRR SQAHARKRRRGDKFGVRPLQYCAF*DF WRRLSWQNPFFKATLPLLR*PLPPPLQA GTAPSPSSSQAN*MITARVTVTGWRAG SGTGSKGP*EPGRASFPS
4515	12566	A	5415	20	481	PTDRPGEHSKTPSLQKCKK*KLACSGT CL*S*ILGRLRQKDHLSPGVRGYNEL*SC HCTPSWVAE*GPVSK*IIQSPPRKE*S/LY NEKNPSN*HIVDSGEWFSFVFLGADRWG AGVLYQVRALSQMCNERGHKHCIPITI YLPYKPLCLPAL
4516	12567	A	5416	236	820	RRPQQAGKMKGSRIELGDVTPHNLFNCL ILCGVTSPNIKQLKRLNQVIFVSYNDKF YKDVLEVGETLTKLAYFNDAVGA VCCR VDHSQNQKRLYIMDTRDVWAPYRSLGI RELKC*IMCLKHLLKKMVLFDNIFLHVQI SNESAIDFYRKFGFEIAPKKNYKRIEPA DAHVLQKNLKVPSGQNADVQKTDN
4517	12568	A	5417	15	209	KASRKMQIETTLRYLSPMRLAKMQML INTSCW/RKSQETRTLIC*W*EGKMVQPL SKGIWPYLIQ
4518	12569	A	5418	1	498	VQTRQLVTSPSPMSSSD/EQSSSPQCTV PSKLLVDPLQHEFSKCGENDNNIP/TPSNS NTPLKHSASFISATGTTEESRSVPQIKNGS VVSLSQSPGSRSSAGGTS AVEVKVEPETS SDEHPVQCQENSDEAKAPQTPSALLGQK SNTD GALQKPSNEG VIEIKATK
4519	12570	A	5419	8	299	
4520	12571	A	542	1	518	MAVARLA AVAAWVPCRSWGWA AVPF GPHRGLSVLLARIPQRAPRWLPDLPNLA YKKLKGKSPGIIFIPGYLSYMGTKALAI EEFCKSLGHACIRFDYSGVGSSDGNSEES TLGKWRK\NVLSIIDDLDVGPQILVGSSL GGWMLHAAIARPEKVVALIGVATRCR YLSKDV
4521	12572	A	5420	1	3788	MMRLEGAEPGQLQNDIEEVISSACRLV CEWAQKVLSQPFDTVLELARFLVKSHYI GTKSMAALTVM AAAPAGMKGITQPSAF IPTAESNSFQPQVKTLPSPIDAKQQLQRKI QKKQEQKLQSPLPGESAAKKSESATSN GVTNLPNGNPSILSPQIGIVAAVPSPIP VQTRQLVTSPSPMS/CF*ROSSSPQCTG GHSAAVCETGKDSPESSQSWWGSF CPAPLPSDLTQTSEHQCTPIRSPTTVL
4522	12573	A	5421	288	668	VEKRQFLNSTADPECIRYPLTYFVLGQSL ALVTKAGVQWRNLSSLQPPPEFKRFSC LSLLSSWDERHAPPCPS*F/CVFFLVKTG FHRVSQDGLDLTSDNPPTSASQSAGITG VTLAPSLFVLIH
4523	12574	A	5422	3	288	STFFFFFK*NLARLSRLECHGTISAHCNFR LLGSSD PALASQVA\GLRGTC HHT*LIF VPTVETGFRHVGQAGLELLA\WVICPP*P PKVLR LQA
4524	12575	A	5423	1	781	MVHITGLCADNLQYQAGARIISVPEEDN SKSLENIFGGIIEENFPSLARDLDIQIEAQ GTPGKCITKRSSPRHIVIRLFVKTKERIL RAVRQKHQV TYRGKPIRLTADFSEETLR ARRDWGHIFSFLKQNDYQPRILYAAKLS IIEGKIQSYSDK\QMLREFTITNGKLLKG AVSLVVALNR*NKSWKHIKTHQNRTSLK HKSHRTYKTKIPLHDEYNDLRSALRPAS HTAYGSMLMILKSSLTLFKHGDEVVGRRAK

4525	12576	A	5424	2	392	KTAKIIMANKHRKRHQSQ**VRLMQKKI IMIHYYIPQWLKTSKSDMIKCCSGYGTTE IFTHYLWECKLLHLLWRMVWLALLKFK TDTPHDPAIPLLGTYPAECCTCTPKAHT AALSIIIPSWEQPKYPQ
4526	12577	A	5425	1	181	
4527	12578	A	5426	1	2162	MALFVRLALALALALGPAATLAGPAKS PYQLVLQHSRLRGRQHGPNCVAVQKVI GTNRKYFTNCKQWYQRKICGKSTALGT ADVKGVSLLAVSVSDLGGEQMRKLPR EMMKLAEDGPAALPLSNLYETLGVVGS TTTQLYTDRTEK\LRPEME/GGPGSFTIFA P\SNEA\WAP\PAEVAGTPLVSNVNI NALRYHMGVRRVLTDELKHGMTLTSM YQNSNIQIHYPNGIVTVNCARLLKADH HATNGVVHLIDKVISTITNNIQIEIEDTF ETLRLA\VAASGLNTMLEGNGQYTLLAP TNEAFEKIPSETLNRILGDPEALRDLLNN HIL\RSQAMCAESIVAGLSVETLEGTTLE VGCSGDMLTNGKAHSNKDILATNGVVIH YIDELLIPD\SAKTLFELAAESDVSTAIDL FRQAGLGNHLSGSEARLTLLG\PLNSVF KDGNP\PID\ALTRDLLWNHINKDQLASK YLYHGQTLETLGKKLVRVYVRNSLCIE NSCIAAHDKRGRYGTFTMDRVL\TPP MGTVMDVLKGDNRFSMLVAAIQSAGLT \ETLNREGVYTVFAPTNEAFRALPPRERS RLLGDAKELANILKYHIGDNEILVSGGIGA LVRLKSLQGDKLVSAA*KTNNVSVNKE PVAEPDIMATNGVVHVITNVVLQPPAN RPQ\RGIDLADFA\EIFKQAFSVFPGAS Q\RSVRLAPVYQKYL\ERMKH
4528	12579	A	5427	1	410	FFFLKRRDLAVAQGTGVQWGDHGSLOPQ IPGRRQSSDLSFLNS*DRHILSCSATFTS F*RSHSAAQAGLEILATSNPPA*ASQGP GI*GVSHHTWQKATFCICLPANNILSCLN IY SFFYHKTNHNFMKTNHHQI
4529	12580	A	5428	3	404	RLFYNFTIEMRFSLFVQGC\TNSLG*SDL LVFASASAGITGVSYPHALASIVFVCVC V*WGSALVAQAGVQ*RNLSLQPLPPEF KQFSFLSLPSSWIYRHPPPLSFYLPKLKS CGLCTGIWAWRLFIFIGS
4530	12581	A	5429	2	240	TRSAVV*SQLTAALTSLVKQLSQLSLPR SWDYTHVPPCLSIFYFL*R*GLPMLPGLV SNSWTQAIFLPQPPKVLGLQA
4531	12582	A	543	3	604	VMSWAFTFIHSLTDSPRATSSPPSPIHE GDQDIIVLKFLKVLGGKNSGAWGRNGR PQGRRRGAR\FLRLNVGGCIYTARRESLC RFKDSMLASMFSGRFLKTDGACVID RDGRLFKYLLDYHGEVQIPTDEQTRIAL QEEADYFGIPYPYSLSDHLANEMETY/CF KALTDFCDSYGLVCNKPTVWVHLNT SGAS
4532	12583	A	5430	3	468	RWSFTLVAQAGVQRVILAHQAOPPPGFK RFCSLSLPSS/WDYRLAPPLANF*FLVE TGFLHVGQAGLELPTSGDPPASASQSARI IGVPLCPGISRIFVQMALEDSDSISRL WFLSRHANLQCVTLWACQLLPCGTWR ARETKANTLPAVP
4533	12584	B	5431	151	344	YENESALNLYETCKVRTVKAGTLEKLVE HLVPAFQGSLSYVTIFLCTYRAFTTTTQ VLDLLFKS*
4534	12585	A	5432	1	439	PSASSGQAGGFWSQSLFKQESSGFVRTS AESVLRQESLRGVLGVELEYWRGSEVC GSRQSLYGLSSGRGILQGPQEH*SPLC PSPPELKIPENANVFYAMNSTANYDFVLK KRTFTKGVKVKGASFTLPRMKQKGLK IAKGIF



4535	12586	A	5433	77	444	GLGVPSSELQIRVLPITVCPSSVPPQYEN ESALNLYETCKVRTVKAGTLEKLVEHLV PAFQGSDDLSTYVITFLCTYRAFSASQQVLD LLFKR*A*ALHCTGCTRGPRPHPLAAG LGNAESPL
4536	12587	A	5434	1	3190	MVQRMWAEAAAGPAGGAEPFLPGSRRSR SVWDAVRLEVGVPDSCPVLHSTQLDP DLPRPEVGGGRGLLQKSASRVGSGGCRR APSNSRDHGWGFAPLNTVPGPAVTKAA AAQVDLFLRHCPCLHRWPVPYFTQFPPR ARSASLAFTMQAVGLCSRQSVPYLGNRL HRCIPCTVARQALDVPAPGCRALSSQSST QEIGEELINGVIYSISLRKVQLHPAGNKG QRWLGYENESALNLYETCKVRTVKAGT LEK
4537	12588	A	5435	1	435	EKINKIRWLPQQNAAHFLLGTNDKAIKL WKISERDKKAEGYNLKDDEGRLRDPFRI TALRVPILKPMMDLMVEASPRRIFANAHT YHINSISVNSDHETP/NIVDIKPANMEELT EVITAAEFHPHCNVFVYSSSKGTIRLCD MR
4538	12589	A	5436	204	397	VPILKPMGSYG*EASPRRIFANAHTYH/ NSISVNSDHETYLSADDLRINLWHLEIT DRSFNIV
4539	12590	A	5437	1	1463	PLRSWLPRLPDSQADIISTVEFNYSGLL AT/GDKGGRVVIFQREQEVLAPRRPAL P*SVSSFLSTSCREVWQGEFSLPFRERIK /GRPHSRGEYNVYS/TAQSHGTGGFDYL KSLEIEEKINKIRWLPQQNAAHFLLSTND KTIKLWKISERDKRAEGYNLKDDEGRLR DPFRITALRVPILKPMMDLMVEASPRRIFA NAHTYHINSISVNSDHETYLSAR*PGGIN LWHLGNHR*EAFNIVDKPANMEELTE VITAAEFHPHCNVFVYSSSKGTIRLCD MRSSALCDRHS/KSFEEPEDPK/SSRSFF S/EIISISDVKFSHSGRYMMTRGLPVR WKVWGPSTWEEAGPVGGPTRVHEYLAR TKL\CS\YENDCIFDKFECCWNG\SDSA IMTGSYNFFRMFDRDTRRDVTL\EASR ESSKPRASLKPRKVCTGGKRRKDEISVD SLDFNKKILHTAWHPVGQCYLPWLATN NLYIFQDKIN
4540	12591	A	5438	3	392	FCACFIGSKTPASCRAQGRPGFEFSPGSP SGPAGGKGVLEKEPSEM/PP/PEAGERK LERKTVPGRGAEYGPPLRLSYPAVNS HPLPSSVNGGDSNNSSQLPESHCPFFSP KEGPRKGEVPC LHATRA
4541	12592	A	5439	1	297	SLLGPPEPTTWT/PAPQDR*HGPC*GR*R KRRPSL*T*QWELASPP/REPMFVPKKEM VAIQPLQEEASVGPTPELLSGSCRSPISGI SILGNCPSLAPLT
4542	12593	A	544	3	533	AEGDQDIIVLKFLKVLGGKNSGAWGRN GRPQGRRRGARVFLRLNVGGCIYTARRE SLCRFKDYNVASMFSGRFPLQTDSEGAC VIDRDGRLFKYLLHYPSWRSSEFPQMRD TRGRPTGKRADYFGIPYPYSLSDHLANE METYSLRSNIELKKALTDFCDSYGLVCN KPTVWVLHYP
4543	12594	A	5440	3	11	HELILSPGPTQGQTPDEAGVIIRVLKNVP DLAILNSKDALDPRQPGYQPPNPHGPSS PPAAPRPRGA*GNPQLENASRSDRNPSQ GLRTRIRRPETPCGPPSPAGSSVAPPPS DVPPAFHSSGPPEPTTWT/PAPQDR*HGP *GDKRGAPGVAGEDPDQP*GTS

4544	12595	A	5443	1	702	MVAASAAJKFTNMSLAIAIAGEHVEFA LIPVTAVKYTYTVIPALVMTWCLSYIER WVDSITPAVTKNFLKPMILVIAAPLAIL LIGPIGIWIGSAISALVYTIHGYLWLSVA IMGALWPLLVTGMHRVFTPTIIQTIAET GKEGMVMPSEIGANLSLGGSSLAVAWK TKNPELHLDTPHTESPTPHDSNSHRP/PT AGVYNRSKAKSTDKDNDQTRWGNWR WSQRKYCLPL
4545	12596	A	5444	195	524	RALTTPRHLPTSQVASCNLCCLFLADLD TLHTESPTPHDSNSHRP/PTAGVYNRSK AKSTDKDNDQTRWGNWRWSQRKYCLP LIVLSFFQTKQNTGTGFRNFLSPFLMYV
4546	12597	A	5445	2	884	VPQFKPKLHQENGPGLARCDHQGAQP TRETWLQDRDREFQSQTFLLRSV*LV LQLQESQHSLERLREGQRLVEREQARMR AQQSLLGHWKHGRQSLPAVLLPGGPE VMELNRSESLCHENSFFINEALVQMSFN TFTKLNPSVIHQDATYPTTQSHSDLVRS EHQVDLKVDPS\QPSNVSHKLWTAAGSG HQILPFHESSKDSCKNDLDTSHTESPTPH DSNSHRP/PTAGVYNRSKAKSTDKDNDQ TRWGNWRWSQRKYCLPLIVLSFFQTKQ NTGTGFRNFLSPFLMYV
4547	12598	A	5446	269	483	
4548	12599	C	5447	5465	5719	MRLGKTHSTAGAWKMGLLRQADSTRG EKRGGKKAIIICVKSPGYQVAVWKY HSSLGVFEFKKTCVSMGRHDTEKKMS WERP*
4549	12600	A	5448	57	102	
4550	12601	A	5449	3	287	RALYYFL*FALFGLT*M*LVS*KLQIEYE KKQTLGQNDTGFCIDGTANTFRVMFKEP IEILPNVCYTACATLKVRVMHYVPDGL LNVAECVF
4551	12602	A	545	1492	1672	KQWHESHDPDYDRSPSQTGEGDEPCSWH RLFAQGDK*YEATACHRNLDWQKATDI SCNTNG
4552	12603	A	5450	1	594	
4553	12604	A	5451	1	768	SVEFPCRLSGAVVRWAEACQRQQLPV TFGNKQKVLGKALSIRFPLMTIEFAAG PAQSGILSDREVVNLFHFTVNPKEPRVEY IDRPRCCLRGKECCINRFQQVESRWSYS GTSRIRFTANRRTSIVGLGLYGSVHGP TDYQVNIQIEYEKKQTLGQNDTGFS GTANTFRVMFKEPIEILPNVCYTACATL KGPDSHYGHKRI*RKVVHGGHLLASKD CFFLF*F/ALGINNGTSIEDGQIPEIFYT
4554	12605	A	546	138	257	IFLLYLKNKVQNK*EIKQHFLGKIMSRDN NTYLTWGTEN
4555	12606	A	5460	69	418	LKSKLSYKINL/QKSVTFVYTNSN*SEK/ QFKKEIQFTNSCKDN*KNYLGINVIKEVK /DLYN/ENY*ILIKNEKNPKK/WRAIPCSW FGRINIVNKFILPKVGYRSNAIPMKMPV TSRTRG
4556	12607	A	5461	2	216	YLFYLLPRLKCSGVITAHCSLYLPGSKY PPHSAS*VAGTTGPATMSS*YF*FFVETR FFLCSPGWS*GSSSDPSASASQIVKIGVS HCTCPRNFRNRLAQSLHFTGEETVPRKK GDLPWVYRQTQG*IPGPHRCQVLAF*PK DFLLSPHIYVSTSILWPPA*AQAEVQWC DHSSLQPLPPRFKISSPLSLLSSWNHRSCH HVQLIFLIFCRDKVLPVFPRLVIRELQ
4557	12608	A	5462	59	403	KRGFNFGAPDKREWGEFG*LKPWLPG* NNFSGQTLRRSGD*RKTPHGGVNLVF*E KTGFSNLGRGGLKPPPSGNTPAWPPKGV GITGASSPPVFCFLGFCENTNLRAKKK FI
4558	12609	A	5463	1	242	

4559	12610	A	5464	15	276	ASVTQAGVQWHNLGSLQPPPRFKQFSC LSLPSSWDYRRPPPCPTNFLFLVLARMV SIS*PHDPPASASRSAEITGVNHHARPGLF L
4560	12611	A	5465	2	309	EQKFNKQKGRRALRCRGGLSGLLSCSK DVKVSFFSVARLQCSGLLAHCNLHLPGL SDSPASAS*VVGTPGQRHHAQLGFVFLV EMGFHHVGPVMVFDLLTSG
4561	12612	A	5466	1	1209	GGIPALDKNVAELTVMDVYDILSLVGHE VERVIDQHGCEAIARLMPKVVRVLEILE VLVSRHHVAPELDELRLLEAPLRVRVM DLIEKERKHQKELELVEDVWRGEAQDL LSQIAQLQEENKQLMTNLSHKDVNFSEE EFQKHEGMSENERQVMKKLKEVVDKQ RDEIRAKDRELGLKNEDVEALQQQQLRL MKINHDLRHRVTVEAQGKALIEQKVE LEADLQTKEQEMGSLRAELGKLRLERLQ GEHSQNGEEEPETEPVGEESISDAEKVA MDLKDPNRPRTLQELRDVLHERNELKS KVFLLEELGLL*E*RNDRGKPNTPPTH RPPEDGPPSRESGIKATCLASFFPEVKKR LGQTHRGNVHIQGVPLDKLGKHPMTAMT GYTEQRTGSPCSIC
4562	12613	A	5467	1	388	FKDPEAVRALTCTLLREDFGLSDIPLERL IPTVPLRLNYIHWVEDLIGHQDSDKSTLR RGIDIGTGASCIYPLL GATLNGWYFLATE VDDMCFNYAKKNVEQNNLSDLIKVVKV PQKTLLMDALKGSI*V*SMTFCMCNPPF FANQIGSQVE*YSRNP RP PPSVNTGGI TEIMAE GGELEFVKRIHDSLQLKKRLRI DMAALLIGVCSEVSGRKDWIQQ LAPRW YSCMLGKKCSLAPLKEELRIQGVPKVTY TEFCQGR TMRWALAWSFYDDVTVPVHE GRLAVGGVTSDSQNGKSAPPSKRRKLE KPRKPITFVVLASVMKELSLKASPLRSET AEGIVVTTWIEKILTDLKIASINEFPVEK RKSAFS*RP*KTPGFI*GERKESV*SDSKS TLRRGIDIGTGASCIYPLL GATLNGWYFL ATEVDDMCFNYAKKNVEQNNLSDLIKV VKVPQKTLLMDALKGSI
4563	12614	A	5468	72	680	LEEPRPQSLEGHTEGERAALPGKAKVVE GRVADDGVPGQPAWPGAPHTAAFQPV HALGSTRASQQGSLGDC*AACR*Q*KAP *VPKQGT*QERSSTK/PRAVPSGHWAGG SGCRCSE*RAALG*TTEPQQSGELPGPPW PLEGAAHPLSAETGSCVPPRAFSGQKQ PRGPG*AAEGPHGDFPQTGDRHCPPSSTE PSGMTGR
4564	12615	A	5469	259	373	
4565	12616	A	547	5	960	PTFSRAVATMFSRAGVAGLSAWTLQPQ WIQVRNMATLKDITRLKSIKNIQKITKS MKMVAAAKYARAERELKPARIYGLGSL ALYEKADIKGPEDKKKHLLIGVSSDRGL CGAIHSSIAKQMKSEVATLTAAGKEVML VGIGDKIRGILYRTHSDQFLVAFKEVGRK PPTFGDASVIALELLNSGYEFDEGSIIFNK FRSVISYKTEEKPIFSLNTVASC*QHGV YDDIDADVAAKITQEYNLANIYYSLKE STTSEQSAIRMTAMDNASKNASEMIDKVL TLTFNRTRQAVITKELIEIISGAASSVKKE NSAS
4566	12617	A	5470	1	336	

4567	12618	A	5471	1	1396	GAHAPHPNVMPASMGSAVNDALKRDK DAIYGHPLFPLLALVFEKCELATCTPREP GVAGGDVCSSDSFNEDIAVFAKQVRAE KPLFSSNPELDNLMIAIQVLRFHLLLELE KGHELCDNFCHRYISCLKGKMPIDLVID ERDGSSKSDHEELSGSSTNLADHNPSSW RDHDDATSTHSAGTPGPSSGGHASQSGD NSSEQGDGLDNSVASPGTGDDDDDPDKD KKRQKKRGILPIVFPNIMRAWLFQHLTH PIYPSEEQNIQLAHDGTGLTIFQVNNWFIN ARIGIVQPMIDQSNRAGFLLDPSVSQGAA YSPEGQPMGSFVLDGQQHMGARPAQTY EWDGA*IWAWMGNGTTC*PSSC*RHSQ SKGEVCRAWPGDYVSQGGPMGMSMAQ PSYTPQMTPHPTQLRHGTPNAFHILPSL PHHPGLD*LHGGTPYPTWD*LC*AQSPT MLNSVDPNVGGQVMDIHAQ
4568	12619	A	5472	3	862	TMRPDIDNSQAAHQPPGRLPNSRKLKKT RRQMCCVQTKKRIARLPCCRNTPPTAR SHPGRDCAKPN*SLRSPGGDCH*QGNT TWRMPMAR*LSGDESSEGRSPVRTIICHQP SRSQSPVDRLQQLPASQSTQLPCSSSPQ ETTQSRMPPEARRLIVNKNAGETLLQR SARLGYEGSVLYCLENKICDVNHRDNA GYCALHEACARGWLAKFVRHLLEYGAD VNCSAQDGTPLHDAVENDHLEIVRLLL SYGADPTLATYSGRTIMKMTHELMKEF LTDLFK
4569	12620	A	5473	1	444	KLLRWLRQENCLNLGGGSCSELKSHHC TPPWMIEGDSI*KKQNKTKRKRKPQGS HS/TLGGPDWV*QNCVSVQLPISHFPL LQDILPPLPYLGANGQAGEQGATDGH*/R TTTESHRASVGCRIPLWCQRPLALALSFF LCEMRITP
4570	12621	A	5474	2	330	EMSFALVAQAGVQRHNLGSLPLPPGFK *FSCLSLPSSWDYRYAPPTPANFAFLVE TGCLHVGQAGLKLPSGNLPTSASESAG IIGVSHCAQPGTATHSNTVLSGLFC
4571	12622	A	5475	2	363	ELDTLCDLYEP*PSPSIIFINTRRK/VDWLT EKM HARDFTVSAMHGDMQKERVIM REFRSGSSRVLITTDL/RIGRGGFRGRKG VAINMVTEEDKRTLRIETFYNTSIEEMP LNVADLI
4572	12623	A	5476	112	434	ARGIDVQQVSLVINYLPTNRENYIHR*A *IWNTPLPLHTWPSLGLKLLIFLIPFLVFQ IGRGGFRGRKGVAINMVTEEDKRTLRI ETFYNTSIEEMPLNVADLI
4573	12624	A	5477	3	724	NSNVEREEWKLDLTLCDLYETLTITQAVIF INTRRKVDWLTEKM HARDFTVSAMHGDMQKERVIM REFRSGSSRVLITTDLL/A E*RELIKAEGRIQGSLSKGTSVPLRKV AAWNIIWHA*GLWGTGMLISSAFLGCPH GCLSVFPPG*SVLRAHAEELSFLTHARGI DVQQVSLVINYLPTNRENYIHRIGRGG RFRGRKGVAINMVTEEDKRTLRIETFYNTSIEEMPLNVADLI

4574	12625	A	5478	1	1274	MSASQDSRSDNGPDGMEPEGVIESNW NEIVDSFDDMNLSSELLRGIYAYGFEKPS AIQQRAILPCIKGYDVIAQAQSGTGKTAT FAISILQQIELDLKATQALVLAPTRELAQ QIQKVVMALGDYMGASCHACIGGTNVR AEVQKLQMEAPHINVGTPGRVFDMLYR K/YTLSPKYTKMFVLDEADEMLSRGFKG QIYDISKRLNSTTKVVLLSATMPFDVL EVTKKFMRGPPFRILVKKEELTLEGIRQV YINVEPEEFNLDLTCDLYENLDHHPRQ VIFHQPPGGKVDW/LSPEKMHAARDFTV SAMHWRFWTQKERRT*L*REFRSGS*PE F*ITPLTLPAQRAFDVASRVSF*SFKLMTL PPPTRGKLLIHRUGSRVDRFGRKGVPINM LTE/EKTKRNLIEDIETFYNTSNEEMPLNV A
4575	12626	C	5479	114	302	MKEEILKKTAEYKRAMXNKKXKQKHHS WVXKAPSRPFIKWETRLGLKTAHSPNVF LQQGQR**
4576	12627	A	548	1326	1780	YLSKLPYFELESIAAARSRPTAQRHPRER KLKPARIYGLGSLALYEKADIKGPEDKK KHLIGVSSDRGLCGAIHSSIAKQMKSEV ATLTAAGKEVMLVGIGDKIRGILYRTHS DQFLVAFKEVGRKPPTFGDASVIALELL NSGYEFDEG
4577	12628	A	5480	1	2043	
4578	12629	A	5481	153	332	QTFVLAEGKH*ENE/PVFKLNVSPLEW REGAFPPKSDVSASFISIALLYNSAAFSKS PPS
4579	12630	A	5482	2	904	HILLVNLKHLQLCTRNRNIFKLFHFRKK SFMGHQRAIKKKGNLYGFALLRRRALQ VEELTLGKDTDPDNARTLNELGGLYYLQN NLETADQVLKRFL*MRERVLGPDHPDC AQALNNGAGSYAMKKNQYDKPEDLYK RALDIGRRALAPDHPFLAYTVKHLAILY KKMGKLDKAVPLYELAVEIRQKSFGPK HPSVATALVNLAVLYSQMKKHVEALPL YERALKIYEDSLGRMHPRVGETLKNLAV LSYEGGDFEKAELYKRAEIKEAETSL LGGKAPSRHSSSGDTFSLKNQLHFS
4580	12631	A	5483	2	331	PGQHGETPLLLKIQKLAGQGGTSL*SEPL RRLRQENCLNLGGRGCSETRSCHCTLV WVTGRDSISKQKTAVDQAEERVSELEDR LFENTQSEKTKEKRIKISTLRGFRK
4581	12632	A	5484	26	117	AKGQVALGRPGARMQGGSKVVGVLG PGSRSEAGTVPSYPAAQTRPHPPQPLLIF RSPGVVPNGHQPPNSTASSKQCNLRC WGLPTVARHPKSGQRPO/PRPTR*PGPSP QGPTPGRKNPERP*LVQQ*PCWAREPV
4582	12633	A	5485	111	270	
4583	12634	A	5486	240	406	
4584	12635	A	5487	128	657	ESESYWAICSRKRSPVLSSYGGHIYLRKIR CPVDS\SVGRRGFLTIFEDVSGFGAWHR RWCVLSGDCISYWAYPDDEKRKNPIGRI NLANCTSRQIEPANREFCARRNTFELITV RPQREDDRETLSQCRDTLCVTKNWLS ADTKEERDLWMQKLNQVLVDIRLWQPD ACYEPIGKP

4585	12636	A	5488	1076	3513	IKALSSSAEDASLVNASISSSVKATSPVKS TTSITDAKSCEGQNPPELLPKTPISPLKTGV SKPIVKSTLSQTVPSKGELSREICLQSQSK DKSTTPGGTGKPFLERFGERCQEHSKES PARSTPHRTPIITPNTKAIQERLFKQDTSS STTHLAQQLKQERQKELACLGRGFDKG NIWSAEKGGNSKSKQLETKQETHCQSTP LKKHQGVSKTQSLPVTEKVTENQIPAKN SSTEPKEVIREIEMSVDDDDINSSKVINDL FSDVLEEGLDMEKSQ/AGDGSSISR/TA AKNRKMH*ISPQCLYLHHWHKQLV*V* CPHLDWN*KTPAEVMKVQNQENSKELV S/RAESGDSLGSSEDRDLLYRSQRFKETE RPSIKQVIVRKEDVTSKLEKNNAPFCQ VNIKQKMQELNNEINMQQTVIYQASQAL NCCVDEEHGKGSLEEAEAERLLLIATGK RTLLIDELNKLKNEGPOQRKN*G*S/APSEF IAIPKDQFTLSEIRLP*KADFVCSTVQKPD AANYYYLILKSRSENVMVATPLASTNS LNGDALTFTTFTLQDVSNDFEINIEVYS LVQKKDPSGLDKKKKTSKSKKSNHSSV MASPGGLSAVRTSNFALVGSYTLSSSV GNTKFVLDKVPFLSSLEGHIYLIKICQVN SSVEERGFLGCPGGGRLQPKRQTIFEDVS GFGAWHRRWCVLSGNCISYWTYPDDEK RKNPIGRINLANCTSRQIEPANREFCARR NTFELITVRPQREDDRETLVTNAGTHSV FTKNWLSADTKEERDLWMQKLNQVLC DIRLWQPDACYKPIGKP
4586	12637	C	5489	135	206	MFIFAFGKSIFKITTTFQSTIVG*
4587	12638	A	549	20	403	KVQGPASAHASGEGSLTIIPVTRSPLAT MNHIVQTFSPVNSGQPPNYEMLKEEQEG AMLGAPHNPAPPMSTVIHIRSETSVPDH VVWSLFNTLFMNTGCLGLITFVYSVKA RDRKMGRRTPGAQG
4588	12639	A	5490	67	388	DAVFA/GAMPTMASVKLSTLHPIVNHPI YEDADLRPGCSMLEIWDVEDPSNAANPP LRSILLEDARPKMPVFQNSVYRVLKVN* EGNYPLHYGTMPCKVNNHPLAYLH
4589	12640	A	5491	3	107	SIKLSTLHPIVNHQHYEDADLRARTKIV YSTYSRTSAKEVRDKLELHVNYVLEE AWCVVRTKFIQDGPVLAQAEK*CQM VTQIYKKYSNALEMPGCSMLEIWDVED PSNAANPPLCSVLLEDARPYFTTVFQNS VYKVLKVN*EDADLRARTKIVYSTYSR
4590	12641	A	5492	3	289	YYLSPPEMGAIFEDPAHVVVYIIFMLGS CAFFSKTWIEVSGSSAKDVAKQLKEQQ MVMRGHRDTSMVHELNRPKVKLRRWK GEGRHFTKRILFY
4591	12642	A	5493	2	652	RVDLPIKSARYRGQYSSYPIKLFYTSNIPI LQSALVSNLYVISQMLSVRFSGNFLVNL LGQWADVSGGPARSYVGGLCYLLSP PEMGAIFEDPVHVVVYIIFMFGSCAFFS KTWIEVSGSSAKDVS*TA*KEQQMVMR GHRDTSMFHELNRYPITAAAFGGLCIGA LSVLADFLGAIGSGTGILLAVTIIYQYFEI FVKEQAEVGGMGALFF
4592	12643	A	5494	58	596	KFIFRDGGSLCCPSWT*TLGLQQSSHMSL PSDWDSRVRAKPNFPFSS*HSFSALYM HLPRSPLNFIQPCRFYKGPAGLSRGGRE* HGL*SDFSANLWQLGFLWQALTDYRA ELPGMDPIISTHLAKLYDNLLEQNLRVIE PFSRVQVRTLWGLHFWPGILTVATSLPH LSRMGTHF

4593	12644	A	5495	2	951	PRVRPRVRPRVRSSRPSRDPSPRRARLR WQLRWKPRWCPRPPKTPGVWKRPRTRP RSSAGGSTGFPSSPILRRSPSTRRRSSRKA SPTATRATGTPPRQAQRKTARAAGRRA SPGIATAGTRSMISMRPGRKPSNPSWEG RTNEETSSLSRLKPVSPGTITCPLRTPGSL LKDSKIPISIKHLTNLPSSHPVVHQQPSRS EMPRTKIPVSKVLVRRVSNRGLAGTTIR ATACHDSAQKVVRSSRPRWMGPMRNT TFPWETTKVSFAFPKESLL/WTPVPRPA PERGPRRSLCPE*GPDNTRKRDATRGFL SR
4594	12645	A	5496	1	279	VQWHDLG*PQPPPGFKRFSCLTTP/RSS CDHRCVPPTPD*FLCFLVETGFHYVGQA GLELLTSGDPPTLASQSAGIAGVSHHARP NFLIFFFN
4595	12646	A	5497	2	291	FLVARVAGSGDGLTLFPRLECTSVITAP ASISWAQGDLPASASQVAQTAGACHHS WPVFTSCVEMGFPCVP*AGLELLGSSPP PQPPKMFRLOA
4596	12647	A	5498	2	345	SHSVAQIGVQWRDLGSLQSPPGFKRFS CLSLPSS*DYRHAPVHPANFFFLVEMWL PRVSDGLDLLTSDLPSSASQSTGITGM SHRARPNFCIFSRDRVSPCWPVWSQTPD LR
4597	12648	A	5499	2	311	QVLENPHFPRG*APPPSW*YPSGFYKSNR PRACFNPRSLAPRGPHQGGFFPPGPLAFP PPFLGPPYGSRRFPSEHFQKVQPLNQPPF LSLKNPP*RFPPFF
4598	12649	A	55	730	950	SFLKDIGLFKIIYFFFFFETGVSFCHPRLE CSGETMAHC/SLTSLGPDPTSAS*QAG ITGVHHHARLIFF
4599	12650	A	550	2	431	DAWAMNHTVQTFSPVNSGQPPNYEM LKEEHRVGCAGAAPTTLFPPTSTLIHNRQ RDLPCPTHVWSLFTNLFMNPACCLGFQ *EFAYSV\KSMDRKMVGDTVGA\QAYAS TAKCLNIWALILGULMTILLIVPLIFQA YG
4600	12651	A	5500	1	2500	MEDAWGIRKETGRVKEEAETGTGWN NWRNVEKSSMSRKVKAARPGFKLPM SDIPPKCTIKDLLPKEKSSTEAVFHTVVL ERHESPDIEDFSFKEPQKNVHDFECQWR DDTGNYKGVLMQAQKEGKRDQDRRDIE NKLMMNNQLGVSFHSHLPELQLFQEGEK MYECNQVEKSTNNGSSVPLQQIPSSVQ THRSKKYHELNHFSLTQRRKANSCGKP YKCNECGKAFTQNSNLTHSHRIHSGEKP YKCSECGKTFTVRSNLTHQVIHTGEKPY KCHECGKVFRHNSYLATHHRIHTGEKPY KCNECGKAFTQNSNLTHQVIHTGEKPY KCNECGKLFQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAIHQTIHTGEKPY CNECGKVFRYNSYLGRHRRVHTGEKPY KCNECGKAFSMHNSLATHQVIHTGTGPF KCNECSQVFTQNSQLANHRIHTGEKPY YKCNECGKAFSVRSSLTTHQAIHSGEKP YKCIECGKSFTQKSHLRSHRGIHSGEKP KCNECGKVFAQTSQARHWRVHTGEKPY YKCNDGCGRAFSRSSLTFHQAIHTGEKPY YKCNECGKVFRHNSYLATHHRIHTGEKPY YKCNECGKAFSMHNSLTHKVIHTGEKPY YKCNCQCGKVFIQNSHLANHQRTHTGEK PYRCNECGKAFSVRSSLTTHQAIHTGKK PYKCNECGKVFTQNAHLANHRIHTGD KPYRCTECGKAFFRQGVTPGPSLECN GTILAYSSLKFVGSSDTHISLLRSQDDRQVL PHLANPNFREGLLPAFLLLCSDSHFLQFC SQFAPRKTQSGSVNNIQAIIAK

4601	12652	A	5501	1	2508	MPHQLGPNLVPDIPPKCTIKDLLPKEKSS TEAVFHTVVLERHESPDIEDFSFKEPQKN VHDFECQWRDDTGNYKGVLMQAQKEGK RDQRDRRDIENTKLMNNQLGVSFHSHLPE LQLFQGEKMYECNQVEKSTNNSSVS PLQQIPSSVQTHRSKKYHELNHFSLLTQR RKANSCGKPYKCNECGKAFTQNSNLTS HRRHSGEKPYKCSECGKTFTVRSNLTH QVIHTGEKPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGHSNLTTTH QLIHTGEKPFKCNECGKLFTQNSHLISHW RIHTGEKPYKCNECGKAFSVRSSLAIHQT IHTGEKPYKCNECGKVFRYNSYLGRHRR VHTGEKPYKCNECGKAFSMHSNLATHQ VIHTGTKPFKCNECSKVFTQNSQLANHR RIHTGEKPYKCNECGKAFSVRSSLTTHQ AIHSGEKPYKCIECGKSFTQKSHLRSHRG IHSGEKPYKCNECGKVFAQTSQLARHW RVHTGEKPYKCNDCGRAFSDRSSLTFHQ AIHTGEKPYKCHECGKVFRHNSYLATHR RIHTGEKPYKCNECGKAFSMHSNLTTTHK VIHTGEKPYKCNCQCGKVFTQNSHLANH QRTHTGEKPYRCNECGKAFSVRSSLTTH QAIHTGKKPYKCNECGKVFTQNAHLAN HRRHTGEKPYRCTECGKAFRVRSSLTT HMAIHTGEKRYKCNECGKVFRQSSNLA SHRMHTGEKPYKCEGGEVIRYNSLLSH QLNHS*QNPYKCSDSGQSLMS*SINRYER P*ARD/YHVNICGRGSIQASQVTRHODFI SLMKRNKCNMHPEAITQ*PMVSEDS
4602	12653	A	5502	3	361	PKKNYFPLHLKGPKTKGVFFYSSSSSQK GVSLCNPRWNAVGPFGFPSTPPSLVK*F LCPNPWS*CDFRPPSPRPGYFCFFNKNKA LLARVVFN*PQVIPLFQPPKMVGFGGLT PLAG
4603	12654	A	5503	32	392	FLFLSFPPLSFKMTLNDAMRNKARLSITG STGENRRVMTEFPKAVHAVPFT*SPGH GNGMSSVTESLGLLRTLLSALPQWFSC VFIVQSGERHPSILEDFFSQPKNSLNMWS SILKL
4604	12655	B	5504	473	524	MGEAKKTGEQVRVLPRTX*
4605	12656	A	5505	1	627	LVSSFFFFFCRDRVSPCCLGWSPTWSPG LKRSARLGLPQCWDSRRELPRPAYLLFL LSWGSPSPSAWQEGG/WCKKKRGTEHPE VPSIPSCTCPSPTVQQ*S/GEKQVQETGRQ S/LGEAKKTGVQWHDQGSLOP*SGLK*S SYLSFLSS*DHRCAPTTPD*FL*R*DPTML PRLVLNSWAQ/CDHPALASQSTGHIILSH RAWACDQNSHFF
4606	12657	A	5506	3	649	RVSSVMSTSLEEIFNCIFDAHVPPLWGKA YPSQKPLAAWTRDLAMRVEQFELWASR ARPPVIFWLSGFTFPTGFLTAVLQSSARQ NNVSVDLSWEIFVSTVE*QAT*VYPKD GCWVRGLYLEGAGW/DPEELLGGRQS PCKLVWLMPTIHFRAESRKKSPKGMYS CPLYYYPNAGSSDRASVIGIDLRSGA MTPDHWIKRGTAALLMSLDS
4607	12658	B	5507	167	377	XKLIQFGLMKNLIRRLQKYPVRVTRREEQ SHPARLYTGCHSYDEICCKTGMSYHELD ERLENDPNIICWK*



4608	12659	A	5508	2	1247	TPLREERGATGLGPVIAMGSGCRICIFFS EFHPTLGPKITVQVPEDFISRELFDTVQV YIITKPELQNKLT/VLESSFVSMEESKQK LVPIMTILLEELNASGRCTLPIDESNTIHL KVIEQRDPDPVAQEYDVPVFTKDKEDFF NSQWDLTTQQLPYIDGFRHIQKISAEAD VELNLVRIAQNLLYYGVVTLVSILQYSN VYCPTPKVQDLVDDKSLQEACLSYVTK QGHKRASLRDVFQLYCSLSPGTTVRDLI GRHPQQLQHVDERSEENLLGHLGVT*GK LDPLCLSGALDHGALPIQAGFLEMMGYR DKIEGRLQERVGLPERRPGQGVTPSSDP HPRKLIQFGLMKNLIRRLQKYPVRVTRE EQSHPARLYTGCHSYDEICCKTGMSYHE LDERLENDPNIICWK
4609	12660	A	5509	1	512	CTLPIDESNTTH*KVIEQRQTPRVAQEYD VLVFTKDKEDFFNSQWDLTTQQLPYID GFRHIRKISAEADVELNLVRIAQNLLYY GVVTLVSILQYSNVYCPTPKVQDLVDDK SLQEACLSYVTKQGHKRASLRDVFQYD EICCKTGMSYHELDERLENDPNIICWK
4610	12661	A	551	137	838	SSGICALIWPWPAHLTNARKRLLRK RNYWRKGEGSLRTIPVTRSPVTMNHIV QTFSPVNSGQA\PNYEMLKEEQEVAML GAPQKPCLPCEPPVIHNRSETSVDPHV\V WSLFNTLAFMNTC/CRLGFIAFA\YSSEVS GTRKMVGEVTRAQGLLPPPKCLNIWA\ LILGVFMNQFLINHPPPSVGSSRPSDRSG RHHLRPRELCPVEPVSVQVKNISIFHSLALP PEARKFCEP
4611	12662	A	5510	1	474	HTIHLKVIEQRDPDPVAQEYDVPVFTKD KEDFFNSQWDLTTQQLPYIDGFRHIEKIS AEADVELNLVRIAQNLLYYGVVTLVSIL RKLIQFGLMKNLIRRLQKYPVRVTREEQ SHPARLYTGCHSYDEMCCCKTGMSYHEL DERLENDPNIICWK
4612	12663	A	5511	199	562	KESPGGRHPVPLIPHP*ES*IPVRAL*KN LIQATYRKYPVRVTREEVRAHPARLYTG CHSYDEICLQDRWRQAGSQGGFRAGCA RPRPLTSPPPHPGMSYHELDERLENDPN IICWK
4613	12664	A	5512	1	1224	EFGTRPLREERGATGLGPVIAMGSGCRIE CFFSEFHPTLGPKITVQVPEDFISRELFDT VQVYIITKPELQNKLTVTAMEKKLIGCP VCIEHKKYSRNALLFNLGFVCDQAQKTC ALEPIVKKLAGYLTLELESSFVSMEESK QKLVPIMTILLEELNASGRCTLPIDESNTI HLKVIEQRDPDPVAQEYDVPVFTKDKED FFNSQWDLTTQQLPYIDGFRHIQKISAE ADVELNWVRIAQNLLYYGVVTLVSILQ YSNVYCPTPKVQDLVDDKSLQEACLS YVPKQGHKRASLRDVFQLYCSLSPGTT VRDLIGRPPPSQHVDERKLIQFGLM KNLIRRLQKYPVRVTREEVRAHPARLY TGCHSYDEICCKTGMSYHELDERLEND PNIICWK
4614	12665	A	5513	2	313	FETESYSVAQAGVQWWDLGSLQPPPGF KRFSCLSLSSWDYRRPPRLANF*FLVE TGFFHVGGAGLDLLT/S/GDPLASASQSA GITGLSHCAWQTTYITFNHK
4615	12666	A	5514	731	1156	SVLGLISDTSNTFLSFFFFFEMESHSLAQA PLQWHYLGSLQAPPPCKLRLPGSRHSPA SASRVAGTTGARHHARLIFGFLVEAGC HRVSQDSLDTLTS*STCLKP/AQSAGITRR EPPTPGLFFFLKMESCSVGPRLGVSQSW
4616	12667	A	5515	3	365	LLNSRPVDFFFFFFFLSHSL/DSVVQAGV QWHNLGSRLLQSPPPGSMFSCSLSS WDYRHPPPYLANFFFFCIFSRL/MGFTML ARMVSIS*PCDLPALGSQSAGITGVSHHA

						WPAYFYFQ
4617	12668	A	5516	400	619	MPEQICPLETSQS*INNLPKKFFMSI*CP GFERSYFFF*CC
4618	12669	A	5517	274	693	KYQILLYNGDVDMACNFMG\DEWFVDS LNQ/KGKVEIPGPGIEPAGEEWGAGMPG SGQLAAWLWAHRGQVWRNSQP*GLAG SCEQGCSCCRLMSFLVGQMEVQRRPW VKYGDSGEQIAGFVKEFSHIAFLTIVGT GPAER
4619	12670	A	5518	3	766	NRLWSSLQTHCCSQNKCNFYDNKDLEC VTNLQEVARI/VGNSGLNIYNLYAPCAG GVPSHFRYEKDTVVVQDLGNIFTRLPLK RMWHQALLRSGDKVRMDPPCTNTTAAS TYLTNPYVRKALNIPEQLPQWDMCNFL VNLQYRVFLPSQNSR\YLLKSSQKYQIL LYNG\DVDMA\CNFMGDEWFVDSLNOQ\ MEVQRRPW\VKYGDSGEQIA\GFVKEF SHIAFLTIGAGH\MVPTDKPLAAFTMFS RFLNKQPY
4620	12671	A	5519	2	279	FLRDVILL/C/HPGQSVVV*S*LTVSPTELP GSSDPPSSAFNCWEYRCVTPCQLMF*FT LLSIGIGSTLPRPVLNSSPQVILAPWPKV LRLQE
4621	12672	A	552	1	528	
4622	12673	A	5520	2	1045	CPSRPCRRRPPPPRGPKPRASYPGGPAP/ GDKKKRPPQ\GPRGSSAPGPPPOEAA GPARPRPGQDAAAGPSGR\PPQALPS\PR GPQPRAPRGRQAPATAQRGPPMRPRR GRGPPPRAPP/PGAGPC/PRLRCALLPESH PRGRPGHPEASSGEAAAGAAPQALPLTL GRTQAPTRPVSPG*GRGPAEGRPRQR/PP THPPPPA\GPPRASARRPAAARRPAGSPA QPAARGPAADAQGVAAQRAAQVRRRG VRGGARGGGRGP/RGPRGRP/PGSSGRQR PLSGVSAQAGPRGAQPDSPDGHGPPPAL ASRQPGPFSFTPVVSTPDACLCPHSGLL ASPSIHAVRGELSN
4623	12674	A	5521	84	202	
4624	12675	A	5522	3	576	ILGFPPFVVRWGSHTVAQAGVQWCDHGS LQPRSPGVK*SSHLSLLGSWNHRHATTT PG*FCFFSRIRSHCVAQAGL*LLTSNHPP ALASQTVGITGVSHWTWPNTGFSVLTA TNKNLKFFHYAISKCLVRAKLSSRLKIE ERNKALSAPVVSISIFDRVLRLLGYSAS DWQPEFVETAVSNFVIYGIFRGQ
4625	12676	A	5523	177	904	ESHLQNDTAAHPLLNGTECGVSPPLTS RQGKVRRTQSSTSRIC/SPVIPKQTFPQP VLHMSAGVALDSPAPPRPWQPPQGF AHT*DRKEEGDPIGWAPGKSCTPKPPP PSLPRTSPGWKRALQKGDTCGPGSTAS TPHPLILGPSQAPPKPKPP/PSPGVPACAP S/YPALPAPISLTEKEQARAPGGQDGAG HTVGGGGAAGRREGQNKTFSGFFFSFF FLPFTLWVVLFLSFL
4626	12677	A	5524	1	173	FLGPSKFPPPGFPPFPFPPPRERGNQRSSS PPSSSS/P/PSQKKTGVPPG*PGGFFPPP
4627	12678	A	5525	1	390	LILNTRPAFIFDLLHNDPKEQAYADLV SAYTLNSMFWLYLATQGVNPTDHPVKH ELDTT/RACMNRSSSPTDKKAGLLYRG AASKFVKNALWEPKSKNA*KVGNKGKS PTSLFGFDVHIFKNMLPPP

4628	12679	A	5526	1	1548	MPERDSEFFSNPLAPDGHVDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQQEIERERELAKEYRGRAKERRDGVN KDYEETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHTLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADRSIFEDIGDY TPSTIKTPWDERERYRERERDQ/RDRDR DRERERERDQERERDRERERDRERIGPG SAKELIKSINEKFAGSAGWEGTESLKIAE DKKQLRDFFGMSNSYAECYPATMDDM AVDSDEEVDYSKMDQGNKKRTLSRWD FDTQEDYSEYMNNKEALPKAAFQYGIK MSEGRKTRRFKETNDKAALDCQWKISAI IEKRKKMEADGVEVKRPKY
4629	12680	A	5527	1	3162	
4630	12681	A	5528	2433	2540	
4631	12682	A	5529	1	1739	MPERDSEFFSNPLAPDGHVDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQQEIERERELAKEYRGRAKERRDGVN KDYEETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHTLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADMKYVS*PLA SDQREGVCTFLVSGILGRC*HENLEKWS GGVKVYV*IWPAADLHFPISIFEDIGDYVP STTKTPRDKERERYRERERDRERDRDRD RERERERDR*HERERDREREKKRHSY FEKPKVILLGPWTFDKGPGSTKELIK/SFI EKFAGSAGWEATESLKKPED\KKQLGD FLGMSNSYSECYPATMDDMAVD\SDEE VD\YSKMDQGNQEGGP*ARWDL*FPQE EYKRVFVTTKEALPRVAFQYGIKMS\E GRKT\RRFKEPQ*PKQSLIRQWKKI
4632	12683	A	553	1	1682	MDNLSDTLKKLKITAVDKTEDSLEGCLD CLLQALAQNNNTETSEKIQASGILQFASL LTPQSSCKAKVANIIAEVAKNEFMRPCV DAGLISPLVQLLNSKDQEVLLQTGRALG NICYDSHSLQAQLINMGVIPTLVKLLGIH CQNAALTEMCLVAFGNLAELESSKEQFA STNIAEELVKLFKKQIEHDKREMIFEVLA PLAENDAIKLQLEAGLVECLLEIVQQK VDSAEKEGGITELKTGSDLMVVLLLGDES MQKLFEGGKGSVFQRVLSWIPSNHQL QLAGALAIANFARNDANCINHMVDNGIV EKLMDLLGRHVEDGNVTVQHAALSALR NLAIPIVINKAKMLSAGVTEAVLKFLKSE MPPVQFKLLGTLRMLIDAQAEAAEPIGE RMLKLVERLVGWCEAKDHAGVMGAEQ NRLLSALIRHSKSKDVIKTIVQSGGIKHL VTMATSEHVIMQNEALVALALIAALELG TAEKDLES AKLVQILHRLADERSAPEIK YNSMVLICALMGSECLHKEVQDLAFLD VVS KLRS HENKSVRQQASLTEQRLTVES
4633	12684	A	5530	93	546	YNCRPTLGVSGCAGLDAQVVCQDCAFE LGKKP/PSGGEQYPSSSAIKQGPKEPYAD FIARLQESLKKVIADLAAQDIVLWLLAFD NANPECQAALRPIRGKAHLVDYTKVCD GIRDKLHKATLLAQAMAGLRMGKGNT FPGACFNCGKHGH
4634	12685	A	5531	1	541	

4635	12686	A	5532	365	661	
4636	12687	A	5533	3	74	RMGPRTGP*VFPETGFPPLSNLE
4637	12688	A	5534	83	262	CTVTPPPQDTGQSKS*STRVSSSLVPRSPT VAPVTLRPGFEPP*WTPLAKTSSVLQW C
4638	12689	A	5535	636	698	
4639	12690	A	5536	125	340	
4640	12691	A	5537	81	1007	QPKAEHAALNLRKTFQHASHTPPFSAQQ *NPHRPHQPWL*HALVQHCSMDMRPS ASGP*/PPGTFSRWSSCKMPVPPPAQVPK SLCGVLSSSC*PGRRSPGPAEPPSRACRP CRQDSG/PAQAGGPCRQDSG/PDPAGGPR DK*ASQPGLPAGERAIPAGGPCRQDRGQ PRLASSAGGHCRLRG/PTPAGGPCRL/P QRAAPAGGPCRQDSEQLRLAGPAGRLA GRHGRRSPGPAEPPSRACRQESG/PAQAG GPCRQHSG/PDPAGGPRGQLSLPAGPAR RRAGNPGRQPLQTGQRAAEAGEPAFAT AVSGRD
4641	12692	A	5538	1	766	
4642	12693	A	5539	74	1178	
4643	12694	A	554	3	910	GRPPRVPPWLRERRRLEGGHRAAPPAPY DLRLAPPVPHPRGATWQIILSDTLKKLKI TAVDKTEDSLEGCLD\CLLQALAQNNNT ANKCKKSKQVAILQLFASLLTPQSSCKA KVANIAEVAK\NEFMRI\PCVDAGLISPL VQLLSKDQKVLLQTGRALGNICYDSHE GRSAVDQEGGAQIVIDLRLSLCSITDPA\ NEKLLTVFCGLMLNYSNENDSLQAQLI NMGVIPTLVKLLGMHQCNAALTEMCL VAFGNLAELDAIKLQLEAGLVECLLEI VQOKVDSKEDDITELKTGSDLMV
4644	12695	A	5540	1	857	MGQVWGLVHFTLELFQTDDEEEQEYNK VTEEVTEHVYLPA*PDVHLNQPSHQPPK AGLQLY
4645	12696	A	5541	518	578	
4646	12697	A	5542	750	797	
4647	12698	A	5543	2073	2844	IVRSLRSTAQKIRSGCPCQSW*RRGRPVG SPSQSTEGPGQVRLRT*PLPFHTHEGGP GAGRRSRSSLERPTSQPHRSQSGRCPAAP ATPLPSPGPQAPLGAPFERG/PRSRSA/QG APGTGVRFFSMAQPFPPCSTSQPLKPCSP QELKMRLRPKGA\PDSSAPGRTAGTPPCL RCWAGSVEPLRRVRGPRRCGRGPAAAA TQWARPLCRARRGTLGGIA*PRSVAAARG SAPAPAAPGAARPGPGMGPPAAVAIAAG RP
4648	12699	A	5544	3	611	SLPPRASRLPPGPSFSGWSPGDNRKLPNT PPPFRAGPRPPSRAPPA*TPGPPSAGSWP* PPGTGSAPRGPAAPSAPGARRPGRPGCPA PAGRPRVPTAGAGACSAASRPGRTRPRCT RPGAPRSRRRGCGPGGA*PGARRPPRP RPPATRAPRSRSPRGAAPPPTPTARGA AARELRVQRGP/APLHAPQQHTPAAIVP YKM
4649	12700	A	5545	3	42	
4650	12701	A	5546	1	160	SMQQTLLLSYF*KLP*PPQPSATMTQISQ QPSTSRQDPPPTK/RL*LVEGSSNNH
4651	12702	A	5547	298	421	LHPHILPIDKLLHQ*KVVSVSEYRQNEV PLYSISSNLVHS
4652	12703	C	5548	598	762	MNSMIQICQDRAEIISSYCNLKIHQRLQN LLISFLQSLKLLKNVNLFSFINKNLK*
4653	12704	C	5549	138	296	MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVVGIFVPLAEIMVGTL*

4654	12705	A	555	1062	1421	DRVSLCC/PRLECSGMISAHCNLSPSGFK QFSCLSLPNGWAYRSVPPCANFCVF/SV ETGFHHVGQAGLELLTSGDLPALASEKC WDYRREHTARGPVTKPSYFQVLFRLHP IFINHLNT
4655	12706	A	5550	2	1575	AMLGTRVERCLRVLGDGAVAEFDASAGV EAQTLTVWRQADKHNIPRICFLNKMDKT GANFKYAVESIREKLKAKPLLLQLPIGE AKTFKGVVDVVMKEKLLWELQFK*WE KTLRRKAPLGK*MIPEFAGRETT*RKEC L*LEQVADLDDEFADLVLEEFCEFNFDLLP AEKLQTAIHRVTLAQTAVPVLCGSALKN KGIQPLLDVAVTMYLPSPEERNYEFLOWY KDDLCALAFKVLHDKQRGPLVFMRIYS GTIKPQLAIHNINGNCTDRTQIALSVNNH EVHIYKKNRQCCKAHELKEHNGHITDI DWAPKHDHIVTCGADHNAYVWSQKDG VWKPTLMILRINRTATFVKWSALENKFA VGSEARLISVCYFESENDWWVSKHIKKL IRSTVLSLDWHPNNVLLAAGSCDFKHRV FSSYIKEVDEKLASMPWDSKMLFGQLM SESGGGGTGGVWHGLDIPKQSIQRNMSA MECFCNTDKRATTEGSNMALKMLRQNS ITQVSIYEVDEKDCRKYCTTGIDGEP
4656	12707	A	5551	1137	1288	RTLNLKAMASRVLRILTGR*CLDVSIKI PL*ENLGESIMVDSLMLVKVP
4657	12708	A	5552	1	1851	MALKKADKQVLEPLMNLEVTVARDYLS PVLADLAQRRGNIQEIQTRQDNKVIGF VPLAEIMVADLDDEFADLVLEEFSENF LLPAEKLQTAIHKSDTKLRQQLPVLCS ALKNKGIQPLLDVAVTMYLPSPEEL*PM EFLQWYKDDLCALAFKVLHDKQRGPTG FYAPFNSRPL*KPQLAHSIILMETATERIS RLLLPFADQHVPEPSLTAGNIALTVGLKH TATGDTIVSSKSSALVLQVLEPNGREKRS TDKTMKAERLLLAGSGRFQEPVFFCTIG TPITV*GSQIWEHAFEMSFSVRIPVLKVR LDPDSGQTVLCGMGELHIEIHDRIKREY GLETYLGPLQVAYRETLNSVRATDTLD RTLGDKRHLVTVEVEARPIETSSVMPVIE FEYAESINEGLLKVSQEAINGHSACLQ GPLLGSPIQDVGNLYIP*QIHPWAPSTT YDFCLCLKMPCKKALERKADKQVLEPL MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVIGFVPLAEIMGYSTVLRT LTSGSATFALELSTYQAHESSRSKYTAQP EKWFDLNVLVFGRGNSGRHPRLLHFSV RNNFYCLYLLGRNKGTVSGTFRGT
4658	12709	A	5553	2	499	RCQKAKFTPVNRHHCRCGFFVVCGPC SEKRFLPSQSSKPVRICDFCYDILLSAGD MATCQPARSDSYSQSLKSPLNDMSDDD DDDDM/TVTKDTFGSI*SGEAL*EINFGG NARL*ALSLDCSVTMNLPEKLGTYVPQYI P*KEGAPAFCHSSHSTGIGFCKYIR
4659	12710	A	5554	147	315	LIPQPWGQHLPLPPNISNYD*RPQKFLGL PHPCSFGRALTPHWSTGLRLTPSAQ
4660	12711	B	5555	105	508	XPGTREVEELNALQEELAPFGLVILGFPC NQFGKQEPGENSEILPTLKYYVRPGGGFV PNFQLFEKGDVNGEKEQKFYTLKNSCP PTSELLGTSDFLWEPQESSRHPLELWKF LVGQMDTHHALHHRPRQQR*
4661	12712	C	5556	4	165	MCLSGNVYHLCACSCVVPQCCTLSLQF STPMIIVHLHLNPKEKPALGPVLL*
4662	12713	A	5557	1	1803	

4663	12714	A	5558	2013	2024	KVAGSAGHLRRTVARDQAAAQRDPECA PTPSLARLLQASCLLSLLLAGFVSQSRGQ EKSKMDCHGGISGITYEYGALTIDGEEYI PFKQYAGKYVLFVNVAISY*GLTGHVH LN*TALQEELAPFGLVILGFPCNQFAGK QEPGENFRSFPNPSRYGPTKVGGFCSL NFPALLRKGDVNGEKEQKFYTFILKNSCP PTSELLGTSDRLFWEPMKVHDIRWNFE KFLVGPDGIPIMRWHHRTTVSNVKMDIL SYMRRQAALGG*RVGCPPFSKILYFPSR VYSLGGGWSILFPPQNKGSFPKFPSRFL GPP
4664	12715	C	5559	2	226	MLLPLPPSPSPSTALPGLGEMGGRPPPPY MLSVAPQTFCFISHSSPSHRVSFSAFPCS VLPPPSQKFLHRTSF*
4665	12716	A	556	213	513	GGKSLARRVPKGRMDGLLNPRESSKFIA ENSRDVFIDSGGARRVAELLAKAAGPE LRVEGWKALHELNPRAADEAAVNWVF VTDTLNFAFWSEQDEHKW
4666	12717	A	5560	2	1308	ALSLLALPPASPP/AGRGRPAGPGPAPLP WHQGLPLTRPGPEG/PLPQGRPLSPPLQP TPAQPLLLPAFPLLPAPGPRRVGFAFWC P*SPGLSPPGLSPDFQTLPCGISFLPEMR KLESWSPAGEPSPPPAPPATRVSSRMQLP DPLTLLPPAGPKATFNSYGV/PPPAPE/PS QGRVRGHPEPTGPLLHSSQGQEAAPLPP GPCCYGDFAF/PRTEGPPSLPTTRARLSS PPPRFPADVVCVLSVSLVLCIPLLVVPM */PHPCCTGSLSSWLPLLMLLPLPPSPS PSTALPGLGEMGGRPPPPYMLSVAPQTF CFISHSSPSHRVSFSAYPCSVLP*APA WAQDPILPARVSPPGRVFPFPC/PPSHPT PGSEAPHS*PSVFLRKWLKATGPPAQPSA PPKPGNLGPHKPLWKLFCASHSFPRFC TELPF
4667	12718	A	5561	3	259	FLFWVFQIPAPFPEYVTDLCICTPSASPN GYLLA\GRDKAQL\WERLRVVFQRALR DGA*AGEAGGSTPNTVTMEMQCPPGNA S
4668	12719	A	5562	2	329	AGVQWRNLCSLQAPPPGPRSFRLSLPSS QVAGTYRRPPSPANFLYV**RRGFTTV NQDGLDLLTSGSVPASASQSAGISGVSHR AQPSFTFFRLACHVFVRHCHLPT
4669	12720	A	5563	3634	4389	LIQFLLHLSIGLYSYTTICLFILLMEYWL FPVFSYYYYYFFLRRSLALSPGWSAVV QSRLTATSASQVQTILLPQPPE*LGLQVC ATTPS*FLYF**RRDFTMLARMVLIS*PR DLPTLASQSAGITGVSHRAWSFLVLF *TESHSVAQAGVQWHDLSLQAPLRF K*FSCLSLPSSWDYRRPPLRPANFFVFLV ETGFCHVGQAGLELLTSSDLPALASQSV GITSVSHHTRPGMSFFITSHKL
4670	12721	A	5564	1	369	LQPQPGLNQSSLLSLLSSWDYRHMPY PANF*YFPETRFCHVAQTGLELLSSDPP YSASQSAGITGVTHRA*PRFTLCTGLIRG QHGEKGLAQGHNVRASSSIQGSVVTWG LRGLFFPHH
4671	12722	A	5565	161	231	

4672	12723	A	5566	1	1401	MQIFDYNSEITDPGIQEEAAGLEGTRKP WNISMLLTTRNISLCQWFSKCGPEPDTST SWGTPQKEHCHLVNKVGVDLSLRMRGY MHGIIQPLNLFQESQLMPQTLFFHNFQN CFFEELHKWRCPDYENNVKRMQLPFS SKLLGSTLTSEEKQERRQQRLRLQELN ARRREEKLQLDQERLDRLLYVQELLEDE QMDQFHKALIELNMDSPLELQSYIQKLSI AVGAG*AENPPSGSQPR/EDVWV/TASQ RPLTWEQLEPSLEDVESMNDFFDPLFSEE/ D/TLEWRSRSP/RVQPVFNLAAYHQLFVG TERJRAPEIIFQPSLIGEEQAGIAETLQYIL DRYPKDIQEMLVQNVFLTGGNTMYPG MKSVMKELVAG*DPSRLSFKVNLASNP CAGM/DWYGGLVNWALNHLDDNEVWI TRKEYEEKGGEYLKEHCASNIYVPIRLP MSCLPLLRCRPHPSQSGAAGGGGAG
4673	12724	A	5567	2	131	
4674	12725	C	5568	170	394	MKTNGYQGRVQWLTDLVLNLKSRPVQS SRPSLGNMVKPPSIQKLKAWVACTCCP SYSGAGAGGWHEPRSLRLQ*
4675	12726	A	5569	2	583	DRKGLESPPEPSSDCRRPPGMDLLAISPV LLAPSPQPVQSWPSG*CGRQAPCVLES GHSAGAGVSSWDGPPVPCCKPPHPGLSQ AHPGKTFGPKNLHMVPSGGAQAPGPHK ANQQSWPSCPPVPRSRPPTFSHIAENPME RKSFAQSGGAGNWQRKVSNNHPWELQV FESPSRCPVKNGRAAGLVTGGFREG
4676	12727	A	557	584	827	FLFYLFIFETGSHSVTRLECGDTIMARC SLNFPGSSDPPASASWVAGTAGVLYHT WLSFAFFRRDGVSRVARAGLQLLAW
4677	12728	A	5570	3	312	FFLNROGLALLKLEYSGMIDHCKPQIS GAQVILPVSASWVARPTGVYHHA*LIF KWGREVETESCYVAQAGLELLASSDPPT STSQRAWITGLSHCAWPA
4678	12729	A	5571	1	121	IFHVLKNCQTRSIYLALMSFKNEGEIKMF SNIQKLKEFITDRSK/LQEMLKNAL*AERI YY
4679	12730	A	5572	2	228	FETGSHSVIFWAGVQWYNHSSLQPRLPGL R*FSHLSLPSSWDHRCPTPRPCNFSIFSRD GFSSC*SGWSQTLGLK
4680	12731	A	5573	1	1896	MVSQGCRRSREMRDAHAGWDSPTALHM ARGLGRRVFSAPRHEGCTPDGNSHLS NOKMEKLTEKGCKQLRQGGLCVRVSDR TVRSVQETTATITLKGSLGTICRGTRN LLTAEGFMPHASVCIQSKSGKVARNTVQ GFTAHGKAVLEAAVSASGPAGTWGCLR IKWPRSVSWLLKPERAATLVGHGCRKS GCPPGLGGS AKM/PPRHQSAAPAGRGR PCWGPEPTSGSLSNQQWLPGLHAPPLP SAPLLGPPLLSRTVDTPGGSGREVEATT CGRRLKDKDSEHAGAGSRHHQSQTGS LGEERAVRAESPGGPAEFLRRIQGA VQTRAVTAGSSVEKINTKLETCDASEEE VLGGDNVETEERSVCPEPVKMTLFEKR VFADIIRCLARWAPAATNRRDLVNTLIPG HGPPCSLVAFL/APPSRPYP*PAARCW WASDFPERGKRLRPAHSSFPVPAPPCVPVQ SQSGPLPCTPRHFLPFPAPAFGICRGPR APGG/SKAVATQRPWWLYAPGTAPGGL PW*/AVPGHNKSIPPQPVSNLTETPLNAP QSSWAALGSKRLGQGC SHGFFAFSFTAD VCTNDDTLNANSLTEVLATEIKHDINLA NEGLAWDRGWDYQGKDMLSL

4681	12732	A	5574	1	475	FWKSPYSVQPRTEARAQGNKQKEFRET APGSSSKADTKSEHLWALLPSRRWGG QTQHPPLAREPQFLACGPMKDIRLADWS TPLLSNPS*KLP*ICQSCPLEQEGKQKA*D ARGVPSFPELQPPSGLTAQGGQTHRPHD LRMTCGRTWHFFLAKTLH
4682	12733	A	5575	2	468	SRGILADPPRPGQPDFLQP*PTRVAALS GLSNQDIDLGLHLMRRQPQVPAGPEAET AASRTALPCAVNPWTVLRATLPDLDCIQ TEACGMKPSAVSKFLVPRQYVPRLPFKV AVMAVVSCTLRITVLSLTLTHSPPCRSL QPFSVSFSIFWFGDK
4683	12734	B	5576	90	1686	XWWEPSFPQQRDSLKVTGLQRAAFNP VAPTHSFKDQHPMPSFCHFLSGVPSSRT TLATGRAAPHSSPLKSLVQGYAPWQTS MSCDYQPPRRQEHKETSRRNSEKQLQAP AQRPTPKANTSGRSLQEDLLPEAQPG SVPVCHPCPLLHAARLAVSAAAAIRGLE VAEAAALVCAQKLLAACSSHSITVWSRG KVKETGLPSTVQAVSELLQVLLCKQKAG GCTPDQGPHTSKVLTEASSLPRISMCLL QPGFSDNIPLGTATLTPAATAATPGPLL PCTKHGNPLGHGLTCHYPLAPLPLPPAP HVRFAALSCLERSAGCCLCTPSCRITVG GSVGSCASELNHRACFSLPLMLGFQAPI ATHQWLFVSRNDKNTLDTPRSAGCDGA HRPRQEPAPDGPVLLCLEMPAPGSYPG GAPVSGHRQVHPQWQVQHLGQSGGIR TGLGANCCKSHDSAYKKGGDVCFPGEM VPVVHQILKGVQHPNCRGHWGTLVQQ KQPWTGSRGPTADQLHPKNSSLTLVFP R*
4684	12735	A	5577	171	1631	GLPQAGADSDPRTRPFLLLGGLPGLPSR PYP*PAARCWWASDFPERGKRLRAHSS FPVPA/PPMRPTVPVRAAPHPSPFTSV PSTGIRHLPRAGW*TGQ*RNTPNKSRRR LSPLVTPGSCRSSPTQSPGSGTTVEMPA RRWCAGATGPGATSP/SSLKVKETGLPST VQAVSELLQVLLCKQKAGGCTPDQGP TSKVLTEAS/SSAPHLQNVLAARSISDN IPLGTATLTPAATAATP/EASPPLHQA WQPS/TAMASPAITPWHYPQQLRMSGLLP CPA*NAPQAAVSVPPEAE*RLAALWVH VLRN*TTGPASHCH*CSASKPPSPPTNGY SVSAMTRTPWILPDLAVMVLTPGKKSQ PQM/RPIVLLCLEMPAPGSYPGGAPVS/ AA*AGTPPAVAGAASRAVGGHPRPGC KLRQIP*FCIQEGWGRVFSRGNPCRASD SQRGPAPKQVQGSGLDGTGATEAALDWE SGPHCRPAPP
4685	12736	A	5578	718	2209	IPSACFLVLLPSWWLVVAAHGLPGRVA LDQAFQWTRVRGCSACGKCPAAG/PQ AQRGSGRSWAWDAGP*RSVWGPLG*TQ PAAAL*P*VSPFVAGKGLAPTTLVGTAI QSILQGLILSWNPGEPA*G*RNLDGAGG RACCPDEDDQIRGGAVLAET*QCSCSP MPDAAHHRHRVRVGVSGAAVCPQWEL GGHGGNARPDAGRGVLRSCRGRNLLT AEGFMPHASVCIQSKSG/TSGTQHCPGV HCTWQSCPLPSAPLLGPPLSRTVDTGEE GHPVDASWTPSTPREPGRWAHCLPQRK P/PLGPAREASVPPAHSGTVAGEAPPVIS HFR/SPAPAFGICRGPRAGATEALPAPRA DAPVKAHV/PAHTGAAS/EPARHVRPFT ATAPFTFPSAVHKGSGFSTSLQTLVIFCC VLMVAIPMGVRWHLTVVLWTLNLAISR VPISVCALDLSFISVPCPLRCWCWWNRV SPKLASPGCSECDLCQMRVMVSSHFSV E



4686	12737	A	5579	2	354	LPSSWDYRRPLIFVFLVETGFNMLARM VSIS*PLDPPDLASRDEIIGVSHRAWLIL S**KGERKSTNVSHKEGLG*WSRATVLQ VYSVGFWEVFPQGCPQSQSYFHNNTNM LFAF
4687	12738	A	558	442	626	VEEGGSEAGWALRIKCNVSPKL/VLQL LHFPQIFNGSFVKLNKASVNTLRIVEPYIT WST
4688	12739	A	5580	1	1263	MAEEQGRERDSVPKPSVLFLHPDLGVGG AERLVLDAAALQARGCSVKIWAHYD PGHCFAESRELPVRCAGDWLPRGLGWG GRGAAYVCAVVRMVFLALYVFLADEEF DVVVCDQVSACIPVFRARRRKKILFYC HFADLLLTKRDSFLKRLYRAPIDWIEEYT TGMADCILVNSQFTAADVFKETFKSLSHID PDVLYPSLNVTSFDSSCS*KAGMT*SPRG KNSWLLSINRYEREKGIWTLGTGKALV QLRGRLTSQDWERVHLIVAGGYDERVL ENVEHYQELKKMVQQSDLGQYVTFRLS FSDKQKISLLHSCCTVLYTPSNEHFQIVP LEAMYMQCPVIAGNSGGPLESIDHSVTG FLCEPDVHFSEAIEKFIREPSLKATMGL AGRARVKEKFSPEAFTEQLYRYVTKLLV
4689	12740	A	5581	200	705	LSQTL/TVLYPSLNVTSFDSVVPEKDDL VPKGGKFLLLSINRYERKKNLTLALEAL VQLRGRLTSQDWERVHLIVAGGYDERV LENVEHYQELKKMVQQSDLGQYVTFRL SFSDKQKISLL/RQLARVCFTPRQ*GTL GIVPLGRPCYMAVPQFICCLIRVGPFGSSI
4690	12741	A	5582	1	259	ERGSRSIARLEC/SG/AISAHNFRPPGSSD SSPSACRVAGITGRHHPQLFFVFLVEM GFHHVA*DGLKLL/NFMIHLPQPPKVLGL QV
4691	12742	A	5583	94	395	PIIITYFEFLNGYIISQKIKFSHHQLQKIDFL P*TWHLFLIEQR*NILMEGNQFSVTDDVK ILFSGKLYSHSKIQSMML*LVTRE*CYMF NCNICLLSFSSLSVIINDLQNP
4692	12743	A	5584	3	270	FFEAGSHSGCPGWSESGAIIAHCSLDLPG SSNPTSAS*IAGTRSMHHHAHLIFVFLVE TGSPYVVQPSLKL/RVQAILPRPPKVLG LQA
4693	12744	A	5585	13	775	YSVRGLVPAERRTPYPGSIVAPADGMVY ALEGMGPDAPQAQVRVYEPRRDCWLS LPSMPTPCYGASTFLHGKNIYVLGGRRQ KLPVTAFAFDLEARTWTRHPSLPSRRA FAGCAMAEGSVFSGLGGLQQPGAPQLYS RPHFVNTVEMFDLEHGSWT/IIAPQPAHE G*EGQTLWLGPLGATLWPLGALETSHVL WALLESFSLARRRWEALPAMPTARCS SLQAGPRLFVIGGVAQGPSQAVEALCLR DGV
4694	12745	A	5586	1	936	
4695	12746	A	5587	1	1023	
4696	12747	A	5588	3	345	LNLLMYFRDNVSFCHPGWSTVM*S*LA AASNSWVVT*SSCFS/LPSSWD*S*LPPCP ANFFFF/CQ*RQNLIMSSRLVSNSL/QPQV MLLPQPLKALGLYRVSHHASVKVFNVLI NM
4697	12748	A	5589	1	430	GDGVLLCRPG*STVALSQFTASASWVK RSSCLNLPSSWDYRCAPPCPAKFCIFSRD GGFTMLARLVSNS*PQMIHPPWPPKVP LPACVWYFSMACNFLYTPSFLLRLFCQQ PKMEKAALCQGSPKTVKSCSQMFTFNF F
4698	12749	A	559	3	398	

4699	12750	A	5590	3	389	GVSPCWPGWS*TPDLK*STRLGFPRCWD YRLLEVDPCGTGHSYLYL*KDPPVPLPAEG CDYQGKEYALSSCCDKSYLLPDYRTKFL CCHPERGTWKLGTVGCCYAPIQSFGIAD EQAWLQHSGGAVYLC
4700	12751	A	5591	3	53	
4701	12752	A	5592	363	777	DMRPQLCSVDNHREQRAEFINIYQHQQF FLRQSLTSVAQAGVQWCSLSSLQPLPTG FKPFSCSLSSWDYRHMPPSLANFFCIF SRDRGFTMLARLVLS*PQ/CDPPALASQ NAGITGMSHHA WPTPTFSYLLNTQD
4702	12753	A	5593	3	85	FFFFFLMLHNNVYLVHLFTISYKHFIIIV LYKQQKFITYVY/TFICLLVFQFQILLES FPFLKIILL*SL
4703	12754	A	5594	1	281	FFFAPETESYSVAWLECSGTILVHCTCL PGSSDSPASASQVAGTTGACHHTWLILVI LVEIGFHHVGQAGLG/IS*LQVIRPPWAP KVLGIIG
4704	12755	A	5595	2	369	FFLRWCFALVAQAGVQWQDLGSLQPLP PGFKRFSCSLPSS*DYRCPPTRLANF/SV FLVEMGFHHVSQAGLELLTSGDLTTLAS QSAGTTGVSSRAWPDLYLFSYIEKTSPF KFSIPFHLEI
4705	12756	A	5596	432	1490	KKGCGKPGELCGCMPSSWKNAYCPTAQ QTAQEYLSSPCGSAAPCLP/DRASSSSRS VEASSLDSAPGTSAAGSPSPRPFGEYH HPGPGANNEPTPAESIVVPSWP*GCHSS VAVEKLSLAPGTPT/SDLPLLDSSMNRKA PIPVFGLSASSLLPLKDARSETSSR*TH Q*FFGKDVH*QNSLAQSLQHSSGPQLL WGKTGNSQSSFPQAG*HSRHKEGCWRE PSHKPLEPHLSQHHGTASSARIPEVPPP HSLGHSPACAWRSSSPRPRPLAALPGC RRRRGAGSSHKAPDRSTARPGRCGRRR GRRGARRGCGGGSRGSPSHSGPQRSESAP PAGAHTRLQPLRSHSLH
4706	12757	A	5597	1	2163	MARMSFVIAACQLVLGLLMTSLTESSIQ NSECPLCVCEIRPWFTPQSTYREATTVD CNDLRLTRIPSNLSSDTQVLLQSNNAIK TVDELQQLFNLTEDFSQNNFTNIKEVGL ANLTQLTTLHLEENQITEMTDYCLQDLS NLQELYINHNIQISTISAHAFAGLKNLLRL HLNSNKLKVIDSRWFDSTPNLEILMIGEN PVIGILDMNFKPLANLRSVLAGMYLTDI PGNALVGLDSLESLSFYDNKLKVPQLA LQKVPNLKFLDLNKNPIHKIQEGDFKNM LRLKELGINNMGELVSVDYALDNLPEL TKLEATNNPKLSYIHLRAFRSVPALSLM LNNNALNAIYQKTVESLPNLEISHSNP LRCD CVIHWINSNKTNIRFMEPLSMFCA MPPEYKGHQVKEVLIQDSSEQCLPMISH DSFPNRLNVDIGTTVFLDCRAMAEPEPEI YWVTPIGNKITVETLSDKYKLSSEGTLEI SNIQIEDSGRYTCVAQNVQGADTRVATI KVNGTLLDGTQVLKIYVKQTESHSILVS WKVNSNVMTSNLKWSSATMKIDNPHIT YTARVPVDVHEYNLTHLQPDYEVCLT VSNIHQQTQKSCVNVTTKNAFAVDISD QETSTALAAVMGSMFAVISPASIAVSFP KRFRRKNYHHFIKKVLWQKTS'SIPLNE LYPPLI*PLGKVDSEKDKDGSADTKPTQ VDTSRSYMW

4707	12758	A	5598	50	824	SLLKPYVVRIFTKEKSYKCECGKFHKS CSRH*NHKIIHTGEKHYKCECGKVFNH C*QLIAQKKIHAEKNSDFKECGKAFNNY YELTHQRFAR*KQCKCNDTHYIYLWK DVTK*KP*STQGVMIHICTWKDFKNI SLRVHKSFYTEEKHYKYKDCCNTFTYVT DFVVRRIYTER*PSNSCSNFIPF*IYIGK KPYNCNEYEKNCLKSTP*KTLV*GRARW LTLIIPAPWEAKAGGSRGQEIETMKPCL Y
4708	12759	A	5599	1	2043	
4709	12760	A	56	939	1603	GHSANWWLGPEENPALPTPELVSPPRGC RQSSRPSLRRHKEEKAK*KSQPTILRPP APPTGSLQAPKGGARPPSRPPPPRPA PNPRLPPPPSPE/GRSSCPAPPTTRTPR VQSQTHRPPPSAYEKKDAARAPTATGR APRRPGLRPKSWMPQEKEPPTDRSIDR TPVPSPYQTREGGRA\PRASSI*GPDSPAT RQDGSSGPHRSYRPGCVAR
4710	12761	A	560	1	960	IMATSATSPHAPGFPAEGRCGYVEKKK RFCRMVVAAGKRFCGEHAGAMEEEDA RKRLCPLDPKHTVYEDQLAKHLKKCNS REKPKPDFYIQDINAGLRGETEIQEQL/CL NSTLTDHIMSHPALHDALSDPINGDSAT KHLKQQASILGNENLKLGP RRCFVEF GAGKGKLSHWVDIALKDAEKVHFILVE KVTRFKVDGKHRKNSVFERLQIDIQH LCLNKIPVLREEKLPVVGIGKHLGCMAT DLALRCLVETAAASFEERNEEPLAKRIK NDKTEKEIYTLAKEGNEKNVPEKWNPV AGIVIALCHHRCDW
4711	12762	A	5600	18	403	FCIFSGDGVSPCWPGWSRIPDLR*SACLS LPSSWDYRRPPPSANFF*FLVKTFHH VGQAGLELLTSGDPPASASLSAGITGVSH CTRP MYAFLKQLNFHIDKSDYRLYRKL YLKATTMVFRYAFL
4712	12763	A	5601	2	497	ETESHVQTQAGVQWCDLGSLOPPPPRLK RFSCLSLPSGWDYRHVPPHLANVCIF**I WCFTMFARLVFNSRRTPSDLITSAS*SAG ITGVSHRA\RLCIFFYFFVAEMVRMSCF VTQVGLEFVALSDLPWPVPKVLGLQA* ANSAWPVFYCNSFFHSHLNAFPN
4713	12764	A	5602	3	303	LSCFPQATFFFFIF*DRVLLCPGRSTVVQ SQLTAALTSRAQGSSCLSLPTKWDYRHV PPYSAFFLVLDKSLALLPRLVLNSWAQ AILPPQPPKVLRLLA
4714	12765	A	5603	122	525	QFFFFEIGSLSAQVGAQWR\STSPLQPW SPGFK*FSHLSLPESWEHRPMPQGLDNFC IFVETGFRHVAQASIKLLGSSDLPALASQ SAGMTSMSSHAWPIVKNFVCIYYVPDIV LSMLS VKSINIHNHVRGLQ
4715	12766	A	5604	1	198	LTGRL/SKCEVVS WRFDVQLKDLKRWQ NHLLLSQQLACIVLTSAGIMDHKEMR*K HTGGKSLGFFF
4716	12767	A	5605	156	1047	VPAGEARVQWHDLSLOPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIIAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKKSKFESITNGDSFSPDLALD SPGTDHFVIIAQLKEEVATLKKMLHQKD QMILEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP

4717	12768	A	5606	156	960	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIAQLKEEVATLKKMLHQK DQMLEKEKKITELKADFQYQESQMRAC MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4718	12769	A	5607	1	354	ETEFPSCCQAGVQ*HDLGSRQPPLPGSS DSPASASRVAGITGMHH*SRDVLIRILEL EEGLELCPHFVSRNLPKTGQILTLMLSLA PVKLAPQPKLSWMELTRHSRLWAALSG GGQV
4719	12770	A	5608	3	403	YIFSRDRVLPFCFGWSQTPGLKQSARLCL PKCWDYRREPPQLAED/SYFQFRASLKM TL*GIVSMV/PLLQKLLWMCKAQGNQAE EGTGVALPEREASSWSCLLQLPFPVDEP CSSFKRRESEKEPSPNGFPNLNI
4720	12771	A	5609	340	1015	VGSVEEFQGGERSVILISTVRSSQSFVQL DLDFNLGFLKNPKRFNVAVTRAKALLII VGNPLLLGHDPDWKV*APPPHSPS*WP QPLPRAGGSFLSACLSLS*SSDVSIPTASL LYL*VK*HPEVEQVQLRWDRVA*PPVS AGHSSVPHRFLAEFCENGGYTGCPFFAK LDLQQGQNLQGLWSKLSPTSGPHSH GLTSPREREGERGPVFCCKWEPEWRNEL
4721	12772	A	561	111	349	SLSDSGCKAYVGDEYLPGLDLHAQP SLLKEHEEEKMFTLKGRLPAADVKNIIIF FVRPRLELMDIIAENVLSEDRRG
4722	12773	B	5610	769	809	GFPIIFHGVMGKDEREGNSPSFFNPPEAA TVTSYLKLLAPSSKKGKARLIPRSVGI SPYRKQGALEDIDKFEGGFSKKNSK AQERSVILISTVAKRPRALLQLDLDF*
4723	12774	A	5611	99	341	SELGTVAHTCNLILPSSGDYRRPSPHLAN F*FLVEMGFHHVQSGVELLSSGDSLAL ASQSPGITGVSHRAQVPPPPFFF
4724	12775	A	5612	1	1795	MRQSHQLPLVGLLLFSFIPSQLCEICEVSE ENYIRLKPLLNTMIQSNYNRGTSAVNVV LSLKLVGIIQITLMQKMIQIKYNVKSRL SDVSSGELALILALGVCRNAEENLIYDY HLIDKLENKFQAEIENMEAHNGTPLTNY YQLSLDVLALCLFNGNYSTAEVNVHFTP ENKNYYFGSQFSVDTGAMAVLALTCVK KSLINGQIKADEGSLKNISITKSLVEKIL SEKKENGLIGNTFSTGEAMQPSGVLPLN GCSTTLAVACSTGHRKCASRALENRCR SPAACKVTKNKRLSNCQTGQRKLRRCDN RMQCGVLDRIEQKEDISGTTSEIQIKWG VELHSVSRWRLGKVAMEMVQCQKAGY PERGDGVGAVAEGPNIKVAGGLRELETR KTALPENESSQEHAFTITLQHLVQGLAH SGYSVLSKCLLNENRAMQKHGTVWTQQ IQSSAAEKSEKTMSWDRLGRGTAHSWQ ACPVSLLKQAVEGAHQEEQCKRRDEM PGESDLVTMASGRDALLCGRCCQAKT EELTITVPRLGEQREAPLPCSTPPGSTPPA AKVPRPSAAPDGPSS*SPGARRQVARPRR GQAPENK
4725	12776	A	5613	12	367	LGGASEATGASAAQPPPPPPAPRAPNPAP GPAPAQR*SALDPPLGRAPRSFLKGPRP ATARPPG/WRLQSPLP*PESPPDTRGVRG EAPAPADPAAGPRKSKSDCLAAVIRCLC RAPR
4726	12777	C	5614	231	302	MNSFLVFFPLYVQMYMLRLNFCA*

4727	12778	A	5615	194	737	EGGVCLSWCGWFGPVCCDYTPPLPEPR DGCLC/PLPKMPPAPPMLPIQQSFQPFQE RPGSPVPETASPPAGN*ISHLSEGPNTQ WSPGFKPWGVCHL*/CGHVGVPLKPAP CPLE/CCPSGCVDSGAFPPQKHSPSGSGPE TAAGPSHLNDNWQRLGFYELLSGIFCRA PNKCICYVSIFVLK
4728	12779	A	5616	2	360	PRVRDPRVRPRVRRRIYKPLRTRDELDO FLDKMDDPDY/WPAVDFFSGDVMHPVT NRPADKRSFIPSLVEKEKVSARMGHAIKM GWIQPRRPRDPTPSFYDLWAQEDPNAVL GRHKMHVPA
4729	12780	A	5617	1	2072	DSGSDSSEDDDEGEDEGDALDDEGHS GIKKTTEEQVQASTPCPRTEMASARIGDE YAEDSSDEEDIRNTVGNVPLEWYDDFPH VGYDLDRRIYKPLRTRDELDOFLDKM DDPDYWRTVQDPMTRDLRLTDEQVAL VRRQLSGQFGDVGFNPYEPVDFFSGDV MIHPVTNRPADKRSFIPSLVEKEKVSARM VHAIKMGWIQPRRPRDPTPSFYDLWAQE DPNAVLGRHKMHVPAPKLALPGHAESY NPPPEYLLSEEERLAWEQQEP/SERKLSF LPRKFPSLRAVPAYGRFIQERFERCLDLY LCPRQRKMRVNVDPELIPKLPRPRDLQ PFPTCQALVYRGHSDLVRCLSVSPGGQW LVSGSDDGSLRLWEVATARCVRTPVVG GVVKSVAWNPSPAVCLVAAVEDSVLL LNPALGDRLVAGSTDQLLSAFVPPEEPPL QPARWLEASEEERQVGLRLRICHGKPV QVTWHGRGDYWPLVLAPRGHTGVLIH QLSRRRSQSPFPCTHV*VHRVAFSPARPF LVLVGPQRSVRL\YHL\LRQELTK\KLMP\ NCKWVCQPGGCNPAGDNVICGSY\DSK LVWFDL\DLSTKPYRMLRNH/HRRALLA VAFHPRYPLFASGSD\GRVIVCHGMVY NDLLQNPLLVPVKVLKGHVLTRDLGVL DVIFHPTQP\WVVFSSGADGT\VRFLT
4730	12781	A	5618	1	214	QDSALLQLL*IIYPVYNLSPAGQGRDLF SCLLRHRLKLTSEGVRT\QSALQAFKGP NAQTQWIYGHDPN
4731	12782	B	5619	58	280	IHCAISKIDIEKDIQAVMEETAILSTENKS EFLLDYFEEDPNSAMDKERRKSLKPK LLRLQRDIEKASKDKEX*
4732	12783	A	562	223	747	CIGKVYVWLGGVGWLQKSWGTPLFSPH PPGRPRSFAGHSPPQGILGVGLGGENRI LVIIIFNLICTYLGQGLGEVEGGESPLS APPTPFLRRFVCV\GPHPLPIPHCCLDVVL FFYRSPFPSSPFPSPHPLPLPFVSCSFLG FCTTQLVYTVYTQPAKRKPNGKHFKKK KK
4733	12784	A	5620	2	785	HFNMARDPLTDCPYNKVYKNLKEFSQNG ENFCKQVTSVLQQRANLEISYAKGLQKL ASKLSKALQNTKSCVSSAWAWASEGM KSTADLHQKLGKAELEAIKPTYQVLNV QEKKRKSLDNEVEKTANLVISNWNQIK AKKKLMVSTQET*STFPSL*ESS/ARQSM TEKEKRKLLNKLTKSTEKLEKEDENYYQ KNMAGYSTRLKWENTLENCYQSIL/ESW RRKEFNFYAITLNQYSQHISLFGQTLTTC HTADSLCHQQD
4734	12785	B	5621	13	543	MFLAPIAVSVRRFFXVKASVYAYTMFFS TFYHACDQPGEA\VLCLISYDTLQYCDFL GSGAAIWVLTLCMARLKTVLKYAYRCG HRRQCYPTLWQRWAFYLLPGVFMA SVG IAIYTSMMTSDNYYYTHSIWHILLAGSA ALLLPPDQPAEPWACSQKFPCHYQICK NDREELYAVT*

4735	12786	A	5622	1	1798	MLCFYAGSCRHFRSGAPPVINPLGTSFPD DTAVQPSFQVGVPLSTTPRSNASVNVSH PAPGDWFWAAHLPPSSQKIELKGLAPTC AYVFQPELLVTRVVEISIMEPDVPLPQTL LSHPSYLKVFVPDYTRELLLELRDCVSN GSLGCPVRLTVGPVTLPSNFQKVLCTG APWPCRLLLPSPWDRWLQVTAESLVGP LGTVAFSAVAALTACRPRSVTVQPLLQS SQNQSFNASSGLLSPSPDHQDLGRSGRV DRSPFCLTNYPVTREDMDVVSVHFQPLD RVSVRVCSDTPSVMRLRLKPGMDSGGS LTISLRANKTEMNRNETVVVACVNACLAL PLALILSLNCTTAFFQGYPLSLA\GSRR NLIPYPETDNWYLSLQLMCPENAEDCE QAVGPRWEDHLCTWGALF*TDGPGYQG C\SLRRHSYLYASCCKAGWRGWSCD NSTAQTVAQQAATLLTLNLMLF/LGP PSPSSVRRFFLVEASVYA\TMFFSTGCG VGGQDRAHGASPFYHACDQPGEA VLC ILSYDTLQYCDFLGSGAAIWVTLICMAR LKTVLKYVFLGLTLVIAMSLQLEPQGH VEHLGGPASLPS
4736	12787	A	5623	121	291	AFCFPKYELTINFKNFQLGVVTHACNPSI LGGRGGRIT*AQEANLANMAK\PCLLNK
4737	12788	A	5624	571	690	CQQGFSLQAYGPAQHAISMRFKAKY PDYEVTWANDGY
4738	12789	A	5625	130	943	
4739	12790	A	5626	45	473	GIPGRRNMAVADLALIPDVDIDSHGVFK YVLIPSPLGLPAPGIRPAESKEIVRGYKW A\GHHADIYDKSVGATCRKQGLRTVSV WTAGPHLPTKSPQGERFT*YG*FHGPMV LPKANANFNLRSKAKYPRLTEVTGLNRPAT
4740	12791	A	5627	3	348	TLRLTHLHTDTHQ/HSYSYTHTEIHTPHT PHTETQTH*YTYALQ/PLRSHLFLRQSRP QNGNAPLCEFSHPSPDVLQTLHLTSVV VKIPSTSLLMCRSSGGAQCRESLDQHEG VGP
4741	12792	A	5628	3	331	FFEMESPSV/SQAGV*GPNLGSLOPPPPQ FKQFFCLSLPSSWDYRRTPPCPANFWIF*\n KDGVSPPWP*WSQSLDLGLFKFIYFFKET LILCTQSSTTTTTTKRTTRSSH
4742	12793	A	5629	3	336	SHSVAQAGVQWHNLGSLQPPPPAFK*FS CLSLPSN*YYRRP\PPHPADF*FLVETGFS HVGRAGLKLLTSSEPPACASQSAGITSVS PPCRAHTFELIPLCPFLFWPLFCP
4743	12794	C	563	238	267	MQINSQMER*
4744	12795	A	5630	1	267	EMESCSVTRLECSGAILAHCNLCLLGSS DSPASAS*VAGITGMCHYTRPFLFLVE MGFCHVGQAGLELLTQVIRPPRPKVLG LQA
4745	12796	A	5631	3	521	FSFFFFPAFKMSNRGRGGSLL\GRKFPDF PLGPSGRLL*SNWCLTNTRSPKTL\YIHL *RGNQGDRLDQTSPLLGVGDMVMAHS/ VKKGKPELRKK\VHPSSGSFRQPKVHYP* EKMGVFLFFEG*LQGVIVEFFKGRDGK VSCHLPGTQLGKGSFADFVAPGICIMP WQPLH
4746	12797	A	5632	3	216	DRSHSVTQAGV/Q/WCDLSSLPPPPGGLK *FLCLSLSSWDY\GAPPHQTNFYIFIRDG VSPYCPGWP*TPSLG
4747	12798	A	5633	1	412	IIRSKNI*YLEINPTKHTKTFSKTLTK\EMK EDLN*WQENPCSWIGSVSIVKMSVLSKL I\HTEIQCNRNKYPIQGLLLPLLLFFLLDR LVLKFTWKGTGPRMAKAILRKS/SEDLT LTYINTYYKATVIKLVGAKPD

4748	12799	A	5634	276	2588	NKHFSFQTPKKSHQKSLSFSKTTPRRISH TPQTPLYTPERLQKSPAKMTPTKQAAFK ESLKDSSSPGHDSPLDSKITPQKRHTQAG EGTSLETKTPRTPKRQGTQPPGFLPNCT WPHSVNSSPESPSCPAPPTSSTAQPRREC LTPIRDPLRTPPRAAAFMGTPQNQTHQQ PHVLRARAEEPAQKLKDKAIKTPKRP NSTVTSSPPVTPKKLFTSPLCDVSKKSPF RKSKIECPSPGELDQKEPQMSPSVAASLS CPVPSTPPELSQRATLDTVPPPPPSKVGK RCRKTSDP/MKEAS/SECQLDASATPGVG TADSPAAPTDSRDDQKGLSLSPQSPERR GYPGPLRSDWHASSPLLTSDTEHVTL SEAEHHGIGDLKSNVLSVEEGEGLRTAD AEKSSLSHPGIPSPSPSCGPGSPLMPSRDV HCTTDGRQCQASAQLDNLPA SAWHSTD SASPQTYEVELEMQASGLPKLRIKKIDPS SSLEAEPLSKEESSLGEESFLPALSMPRAS RSLSKPEPTYVSPPCRLSHSTPGKVTGGK PTSARVPPPT/SPSSTPSPFQTDGVPWTP SPKHSKGTTPDIK/TGPGGRGRWAVAPA PLPGGARSVQPSWEPVTA*VRGQGRP* TQHPQDAHLGGF*ARGSVAPRPVASQE /PACLRPRKPLPGDSL*VPGRESCWPRK KLTVEPKGSVT*EKIQKLVVRKGLQVG VHGSYPPRETKRCLFPAPHLPAVPCGAP SPASALQALTQSPLLFGKTPSSQSKDPR
4749	12800	A	5635	29	268	ILINHFFLESCSVAQAAVQWHNLSLQPP PPGFK*FSYLSFLSS*DYKHAPRPANFCI FSRDAVSPMLASWSQTPDLK
4750	12801	A	5636	2	118	
4751	12802	A	5637	1	262	ETDLALSARLECSGNTLAHRKLRLPGSR HSPASASQVGGTTGARTTPG*FFVFLVET GFHRVSQDGLDLL/NLVHPPWPPKVLGL QA
4752	12803	A	5638	3	309	IDTTFEEEEEEFETESLVTLECSGAIL AHYKLRLPGSRHSPASASRVAGTTGARH HARLIF/VYFLVEMGFHHVSQDGLDLLTS *SGPPRPPKSLGLQA
4753	12804	B	5639	49	754	MAGAAPRLPWSRPHGSCGWWMQPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWAYLPSGSK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCSRMRWAPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWTVQISGPPALKRFGSAWHSRAFLT HCCTVTTTRPCTTSRPQHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
4754	12805	A	564	549	848	LFFPHSQSTKVSTYEQIMCVCVFLFFCF FVFPETGSHSVTRLGCSGVIMAHCSFNL PGPSDPSTASQVAGTTGVCHHAQLIFKF FVEPGQHTIPL
4755	12806	A	5640	3	906	TVKMAGAATQASLESAPRIMRLVAECSR SRARAGELWLPHTVATPVFMPVGTQA TMKGITFEFLDALGCRICLNTYHLGLR PGPELIQKANGHLGFMNWPNNLLTDSG GFQMVSLVSLSEVTEEGVFRSPYDNE TLLSPEKSVQIQNALGSDIIMQLDDVVSS TVTGRVVEEAMYSIRWLDRCIAAHQRP DKQNLFAIIQGGDLADLRATCLEEMTKR DVPGFAGGLSGGESKQFWRMVALSTS RLPKDKPRYLMGVGYVVDREARALPVG SGFLGTPYPAWGGGIWGKRTQV

4756	12807	A	5641	379	677	EGLRP/ELQNDHIIQGGLDADLRATWP* RDDQARNVPGFAIRGALSGE*EQSREF/C AGWLAAEHTLG*PKDKPRYLMGVGYAT DLVVCVALGCDMFDCVFPTRTARFGSA LVPTGEVLQRKKVFEKDFGPIRPGCTFP HVPKAPARAFLHATAAQ*QHGPRTTLT VHNIA YQLQLMSAVRTSIVEKRFPDFVR DFMGPMYGDPTLCPTWATDALASVGIT LG
4757	12808	A	5642	2	335	AGVQWPDLSLQPLPPGFKRFFHLGLPSS WDY/RVHEAPRPANFLAKFLVEMAFCHV GQAGLELLGSSDTPVLAFAQSGITGESHLA WPVFNF*NGSFNVFSLRVINEHLALHL
4758	12809	A	5643	56	571	YYQNPPKKKLAASCGLSPVLQVLKSLKG EVLPLGETQHYFPLNRELRLLTQHFLLL MPLSQ/QTSKAGTHARLIDPDYQGRTKF KIRNGKKILNGRRKEIAWNVGFST/PCLL WKVIGILEQSNMAIYWYIHPRMKV*ASP PGKEQRPFEVTPEGQRNMEWLEEERNG RCLP
4759	12810	A	5644	2	1085	
4760	12811	A	5645	387	533	RWSDYVERYMNSDTSPELREHLA\QKP VFLPQGE*AMSIQCVHTVHD
4761	12812	A	5646	1	169	VFLVETGFRLLARLALNS*PCDPPASAS QSVGITGESHCARPGTILMKHRGQLCT
4762	12813	A	5647	2	369	FLRWSFTLVAQAGIQWCVSSQLPPLPG FKQFFCLSLPSSWDYRCPPTNF*LLV EMGFHHVGQAGLELLTSGDLPASASQSA GITGISHRARPGLFF*AVNGGGNQVFLF LRVLNGL
4763	12814	A	5648	1	340	FRPQSC*CPPADSRLFPATPEAVLSLLVK ASPPPELPRSPPEKPTGLSGGALG*QRFSR AARNRGDPLTRKNSKITSLLSFLQELTKA LEQKPDDAHILSSKSLLSHSSWELL
4764	12815	A	5649	2	660	RPPAPAPGPQGPWPQGPYP*AESPPARS RTPHASQLPRCGPRPTADPSSAPSRRLRP TSRSRHCFFAAGS/PGTPPQPPSADVRRV PPFSPLSSRW*PFPQSC*RPPADSRSR PPLRPSFRFL*KPARPQSSSVASREAGPL VERQVDSVLAGPRETASSFATRPCATLP GKVTANCKPPQKTSGQLLVRLSRSVA AYSSPFFGAPEIGEGEMPI
4765	12816	A	565	178	375	ANFIAGVWSQSRFHALALHIIQQGSKKV P*ANFIAGVWSQSRFHALALHIIQQGSKK VPIVSKLENDTAARHELFIAEWRKQCSE KKAQAKGWRQW
4766	12817	C	5650	19	153	MKMTSNFLLFSSGIFSSTFQIHLDVPLEL QTQNTVMGCLMRIHP*
4767	12818	A	5651	2	306	ETKSCSVA*AGVQRRNHGSM*RQPPGSS NPPISASRVFG/ITGICHRTHLIFLFFVETG SHYVAQGSS*TPEAQVIRLHQPPKL/VFF YIFQLFLCFLVCY
4768	12819	A	5652	2	760	FFFFFFSENDGHLDTGARFAPDRRHTGV GRTKDTQVGYRCHTAPARAGGWGED GCLAS*PGVRVKSRWSVPGAPGRGGQC HNPSGFPT*PGGRHRKQPRPGARVLQAG GQGQAFPLAGWHLSGPGYWLSTPWAC KGLGVVLSVTPLPPRSPWVG*GLGSR/Q AVEGRAAQGRYLSFCPGTQW*WPPSAPI PTGT*SEVAHTKGVPGPGEPPAARGLRT LTAVGPGLPGSRLVQHPKRYRALQALT SCFCSA
4769	12820	A	5653	1	834	



4770	12821	A	5654	674	1268	PRDLPASASQAGITGVSHRLRFYFDHQ DVAPECGAYFFHELAKERKRGVE**NTL LAKMVSIS*PRDLPASASQAGITGVSHR LRFYFDHQDVAPECGAYFFHELAKER KGVRLKMQNQRRGPAVFQDILKPGQ DEWGKLEAMEAAMAPGKNLNQSLD LHALGSAPTDPHLCDFLESHFRDEEVTF MPRKSADLHAAGEAASLGGVSLNVMK GASLHALCLRLNSFGPGVATLCGERVV HKNNRASALRKCFWP
4771	12822	A	5655	2	612	RYDFFFFFFFVTESRSG*LQSQAGVQ LRDLGSLQAPPRFTPFSCVPSPPSWDYR RPPRPANFFLYFYS/MRRGFTVLARMVS IS*PRHLPALASQRAGVTGLSHCTRLFFF* WMESPSVTQAGIQWHDLGSLQPMPPQF R*FSWLSLPSSWDYRRPPRPADFCTFSR DGVSPC*PGWSRSPDLVIHPPWPPKVLG LQA
4772	12823	A	5656	140	261	RAEPPLANHILFF*DRVSLCRPGWTAM A*TWLTVASTSRAQAVLPPSASPNS*DY R/HVSPHPLIFVFSFLIMLSRMVSNWAQ GILLPWSPKVLELQA
4773	12824	A	5657	79	358	AGVKWGDLSL/QPPPPRFKRFSCSLPS SWGVRHAPP/*PG*FSVFLVKTGFLHVGO AGLELLTSGDLPVSASQAGITGMSHCA WPTKALISK
4774	12825	A	5658	2	350	SQVDR*QSEPESIRICREDHMERLQAFDA NSRKQEAWEKEAIKELEEWYARQDEQ LQTKANNRVADEAFYKQPFADVIGYV EEAFVNDIDESSPGTEWVERVARLCDFNP KSLD
4775	12826	A	5659	3	752	HRCGVGGSVGFCLTVGVRAVQLPAMAE LDPFGAPAGAPGGPALNGVAGAGEED PAAAFLAQQESEIAGIENDEAFAILDGGGA PGPQPHGEPGGPDAVDGVMNGEYYQ SNGPTDSYAAISQVDRLQSEPESIRKWRE EQMERLEALDANSRKQEAWEKEAINE LEEWYARQDEQLQNTKANNRVADEAF YKQPFADVIGYVYVAKLIPFSTSDSFYFC LELMILLCHKLLCFLNYFKLALWGLPKN
4776	12827	A	566	656	874	
4777	12828	A	5660	1	348	NSLGESANALGNQ/QPITQNVCPRLMQ APGMAPSPSFIMNTLEVRKAFLKRFPWM SAPVQVGLVGFCVLFATPLCCALFPQKS SMSVTSLEAELQA*DPKRAHPRLRRVY FNKGL
4778	12829	A	5661	3	430	LRQSL/DSVAQAGVHWRDLGSR*APPPG FTPSSCLSLPSSWDYWHPPRPVFLYF* ERRGFTVLARMVSIS*RRDPPASAPQSAG IIGM/SHRAPQILFFIHIFSTVSAGINES*V CFYCHILEVPSKEGILES*CISEAAH
4779	12830	A	5662	3	756	GAJSAHRNRLFLGSSDPASASQEHWGT ETLAH*RSQLTATSASWVQVILLPQPPKN TGAQKHWPTEGEAKEHCVSDDSESTLK AGGQHRIKQGGNSSSGAREPAPNILNSR RSWWTLVAKAAAVTVIRVILMAAILRG TLAKEVNWWVLDLTDKNEAADPRAR HKDSPSPHQTPESWLHSDPTGPGQVE LPASPTMCAGTSQPLVSRWDWSPWSRK RHIFAPSSHNKYAGESFPGIYDAIFDIEN KANSRLAWKEVKKHISIAAFTIQAAAGT LKEVL

4780	12831	A	563	2	773	LANFCIFSRDGVSP*WSGWSRTPDLR*ST RVGLPKC*DYRREPPHPGILLPVFSSHFA FGLFQRRRLRFVCFFAFLRQSLALVTQA GVQ\WHDLSLQPPPGFK*FSCLSLLSG WNYRCVPPRQANFCIF/M*RRDFTMLAR LVNS*PQ/CDPPTSASQSAGITGVSH/H/A RLAFVS/CYTHTHTHHTLA*IPFPSVFP NSLSPPLQQGFCPHHCTELTSYLIKITNPV HVIRPNGHSALCILVQVSAPLHWSLPL E
4781	12832	A	5664	2	415	LDPGSLAGFTSYIQFMYDEFVEEYEPTK ADSYRKK/VAQDGEEVQIYINTAGQEDY TAIKDNYFHCVFSITEMESFAATVDFKEQ /ILRVKKDENIPFLLVGNKSDLEDKRQVSI EEAKNRAD*WNVIVVETSPKT*AN
4782	12833	B	5665	151	1312	MMGGRLLTGGIPGEAAVWGCSRSTAP SVFPPPPAAAAAAAVSSGNLRLHPGQV PRVVLREGGLAPRRGCPSKSGGSESTR VPRAGPRGESTGDRDPAPPPGPPSSSHF SPLRIERKADKPPENSGESSHDVASREQP LVLLAEHFRWAILLACHSMPTVGRKQV NNEIKTEIKKFETSENKDTTYQNLWDT AKISFFPDFSYNFFMPISVLDAGGGSETA KHHHQDVHEIQPHIEPQISLGSFEHPIFGS CTIKEGTYRKRVLVDGEEVQIGILETAGQ EDYAAIRDNYFRSREGFLCVFSITEMESF AATADFREQILRVKEDENVFLLVGNKS DLEDKRPVSVEAKNRADQWNVNYVE TSAKTQLMLTRHKPGTSSQX*
4783	12834	A	5666	3	955	LLLLLLLLLLLLLQPPRLPRHPSDSSFDRSR RGAFQATRTEYPPGGATQPRLEPSGR TGSRCFFLILWRKLRHKMAANKPKGQ NSLALHKVIMGGSGGVGKSALTQFMY DEFVEDYEPTKADSYRKVVLDGEEVQI DILDTAGQEDYAAIRDNYFRSGEGFLCV FSITEMESFAATADFREQILRVKEDENV FLLVGNKSDLEDKRQVSVEEAKNRAEQ WNVNYVETSAKTRANVD/KEWPFLKTR WWNTCKYISSHCPRPAPVSRKTAHWAE VFFDLMREIRARKMEDSKEKNGKKRK SLAKRIRERCCIL
4784	12835	A	5667	1	635	MAANKPKGQNSLALHKVIMVGGSGVG KSALTQFMYDEFVED*EPTKADSSRK RV\VLVDGEEVQIGYPLDTAGQEDYAAI RD\NYFRSGEGFLCVFSITEMESFAATAE FREQILRVKEDENVFLLVGNKSDLEDK R/QVFSRKRQKNRAEQWNVNYVETSAK TRANVDKVFDDLREIRARKMEDNYL NGTKNTKRLAERIREGGCIL
4785	12836	A	5668	2	178	WGFTMLARLVLS*SQVIHPPWLPKVLG LQALGSGSLHRSFFISVKGSSGFTAPSRR L
4786	12837	A	5669	208	339	RGQRLPVSRKWLLGTEEAVALR*STRLS LPKCWDYRHEPPCPAH
4787	12838	A	567	718	971	
4788	12839	A	5670	73	269	DKIFFFFF*DRVSLCRPGWSSVARSRLTA TSASQFKQFSLSRPSSWDYRHVPPRPA NFCIFSRDR/SFTMLVRLVLNS*PQVIHLP RPPKVLGLQA
4789	12840	A	5671	1	586	KKPYECKEKGAFSSGSNFTQHQRHTG EKPYECKEKGNAFSQSSQLKHQRHTGE KPYECKEKEKAFRSGSDLTRHQRHTGE KPYECKICGKAYSQSSQLISHHRIHTSEK PYEYRECGKNFNYPQLIQHQNLYW**N RIYEMCREAFNYGSKQNLSC*FL*IE*C/ SKHFICGLQLIQPGKNNVGEILYE

4790	12841	A	5672	2	355	LFLSFLFFSFFFFETGPHSVAQAVVQWL NHGSLQPLSGFKQSFRLLRLSG*DYRC TPLRLASF*FFVEMGCHYVAQAGLQLL DSGDLPASASQRAGITDVSPCIWPPMSC YVKRT
4791	12842	A	5673	921	1086	TQPWYRHGGGGPKTLRQRSWSPCQAYH VPHACPSHHKNLSSRPWPWCPNATNML LSLKALQPPTLLSPLP*QVCRQGNPKQ RCRGP GATHHIPVHLWHSWPLLHTLPA RISAVQPSFPFKETLGQAEQNRWVPL GPGKQVLRERPLSHQREKREAQLTPRLL ARRPQAGEAAARRQGKGTAEGERG**D GPSKPSLVRARVRKRAGPKQGPSASA*P GPSTPNPPTTQGSHPREQAPATPMSS EENVLSSQTARP/RPSPGTGMGVGVLK PFVSVPGALAKLTMCPMHVLHITKTCPA AQGHGVHRMPQTCC
4792	12843	A	5674	2	70	
4793	12844	A	5675	2	118	
4794	12845	A	5676	446	756	ISFFLSFFLSFFFFEAEARSFTQIGVCSGTI SAHCKLCLPGSHSPASAS*VAGTTGAR HHTRLIFLYF**KTGFHRFSRDGLDLL/NL VIRPPRPKVGLQA
4795	12846	A	5677	2	276	LRWSFSLVQAGVQWCDLGSLOPPPSGF K*LSCLSLPSSWDYRSAPPCANFVFLVE TGFLHVGQA/CLELLTSSDLSTSAS/QSAG ITRREQ
4796	12847	A	5678	60	235	VRVLQIYHSLRLPGSHHPPRGDRLQGRG FLTACQPC*STYC*TFPPGVLGNTGRDLL L
4797	12848	A	5679	1	2059	MSSQEVTFEQRPEGDEGGAVELSRQQTQ QERRRQLGQTQLMYKWAKPKICSEDL GAVKLPASGVKTHCPCNPGFFKTNST CQPCPYGSYSNGSDCTRCAPGTEPAVG EYKWWNTLPTNMG/TRPFSVGSTSTR/C MTGWEVAGDHIYTAAGASDNDFMILT VVPGRPPQSVMAADTENKEVARITFVFE TLCVNCLEYFMVGVNSRTNTPVETWK GSKGRQAYTYIIEENTTSYTCAFQRTTF HEASRKYTNDAAEIYSIICHPCY*MPWAS YAGPCAQKASEEGSSCTSCPAGYYIDRD SGTCHSCPPNTILKAHQPYGVQACVPCG PGTKNNKIHSLCYNDCTFSRNTPTRTFN YNFSALANTVTLAGGPSFTSKGLKYFHH FTLSLCGNQGRKMSVCTDNVTDLRIPEG ESGFSKSITAYVCQAVIIPPEVTGYKAGV SSQPVSLADRLIGVTTDMTLDGITSPAEL FHLES LGIPDVIFFYRSNDVTQSCSSGRST TIRVRCSPQKTVPGSLLLPGTCDGTCDG CNFHLWESAAACPLCSVADYHAIVSSC VAGIQKTTYVWREPKLCSGGISLPEQRV TICKTIDFWLKVGISAGTCTAILLTVLTC YFWKKNQKLEYKYSKLV MNATLKDCD LPAADTCAIMEGEDVEDDLILTSKKSLLG EDQIYLLQEDS
4798	12849	A	568	480	683	
4799	12850	A	5680	1	1098	
4800	12851	A	5681	143	571	
4801	12852	A	5682	3	355	FEIGSCSITQAGVQRHDLCSPLPPPGFK QSPRPSLPSS*DHRCAPP CPASFCIF**RQ GFHHVQAGLELLTSGDPPALASQSAGI TGVSHQAWPPFGFLDRTLISVSQKTNTN RP
4802	12853	A	5683	1	2472	RYDLALWPRLECSGAITARNLKLGGSS NSPTSTSCI/C*GYRLIFFKFFVDTGSCYV AQAGFKLPASSDPPPKMLR/YRPA GHHA R/LCLTVNRTNVP

4803	12854	A	5684	5	298	TGSRVAQAQ*H/DYQGSLOPPPPRP M*SSHLSPRNWDYSHAPHPAKLFFFL DTGSHYVAQAGLKLGGSDPSTSASQSA GITGMSHRIQPHISF
4804	12855	A	5685	9	320	FIYLF/RDGVLLCCPGQSAVAFLRLTVTS T/FL*SPDGELLTL*STRLGLLKWWDYKG EPPRPVFLFCFLNV**RCSLAMLRLVLN S*AQAIFLPQPSKVLGLQG
4805	12856	A	5686	2	438	FFFFSRLENFEFYNNKPFCTNPGPRGPPR VGPPFAPRRGAFSLPQGGPF*SLLFSRPN P/SGPLVRPGLPPTGALPCSVR*VDRSPLP YMVSPGPPGGLRGAGPGPVHPRGPEAP PRARGRGREGGPAESVTRFPWQLRGGH FQP
4806	12857	A	5687	243	377	
4807	12858	A	5688	1	867	
4808	12859	A	5689	1	874	TVLAFADGCGVLAHGRSRSYGRLGRP YSREPGLWSRGPGFTMSDEEARQSGGSS QAGAVTVSDVQELMRRKEIEIAQIKAN YDVLESQKGIGMNEPLVDCEGYPRSDV DLYQVRTARHNIICLQNDHKAVMKQVE EVALHQLHARDMEKQARDMAEAHKEA MSRKLQSESQGPRAFAKVNISISPGSP ASIALQVDDAEIVGVSGSVNTQNFQSLH NIGSVVQHS/EGGPGTHHTFCLYEFDYS RDLI*KPLNVTVIRRGKHLRLVPTRW AGKGLLGCNIPLQR
4809	12860	A	569	811	1481	GNGILLMVHHHCDAGTVIMRADRFIPGE DQKNRVLVNTVLVRISRAVDGKHL SAGI RHTVFRICHNACTQHRGLFRGFNVFGEF LRFAYILIVKENADQCAGFVGIELGEID RVMQALPDVEQAVTHACVINQAAATGG DARQLVGYLVQSQGFNINGNRHLTTTN PVGFPADK*GFPLMLPRVSGRNQHRIS/R VYLPCTATTLLRPGNGPPSSVRPRR
4810	12861	A	5690	30	512	TPVRDMAEAHKEAMSRLKGSESQGP RAFAKMNSIEPRLPQPSIAGLQVDEIVE FGSVN/TPQDFQSLQNNGNVVQVHSEK PPECQD*SARGEKHQKLVPKNAGPGK GLLGCNIIPSAKDELSPRGNSKQEKHPS PCPRTWVLGDFPTCPSSPLKA
4811	12862	A	5691	945	1358	KKQNFYITVHGFSCCLGRGKGQDRD GW ESRDGRFLSRSLTFPQFAIIRLVGQKEFS MLPKSFTLQILPRGSLSLDPQEQLSK*S MPHRAVQSPSRHALGNPKTAREGSAPRS PLTGRPRPPVAAG*CRACRGAPQVARPP QGDQHRGFRGAHSDWRVWRGWASPSL LPRSSSSSGIANQASVPVESPERS/RPAL GGRSGSSPCRRP/PPKPPWRGAIGS*SGT WRRWLAGWRTRRPRAPGCARPARGPP SWPSRPQTGLAAGLSGAPSVPSRRCTP RRSRPPLPARWTPPGAPACRRRPWS*SP GSTTAA
4812	12863	A	5692	3	316	FFFFFLRQSL/DSVAQAGAQHNPGLQA PPPRFTFPSRLSLPSSWDHRRPPPCPTNFS AFPVETGFITVLARMVISIS*PCDLLTSASQ SAGTTGTSHRARPIIFK
4813	12864	A	5693	2	769	LAIYKHAGGVFSFILLQTLNTYGPQDIT KGSVLAYWRLPGLCIIIYLVKQSAKDDFS YYDINRQSVSKLQNVQQLPPDEIKELRQ TITMPAGVDKSSTDQKYVQAGRRLGKVI QQSRLNCFPLVSYIETCLFILWRHLEY L/LHCMPTD/SQKSLFASR/TLF*KQKDCQ GFPSPQETQS*DF*KVGLAYSEANHGF*T QLSGLMPINGFLENHYPKRNFLDIEGL/YI SKVRFFGYSFIALVRRIRGLLRISRN

4814	12865	A	5694	189	424	TLPISYQSSPSHNYQFLASGVGATLPI TPHPTS/ELPYRVSPSPSPRPPS*FSRTF QPP/V/PGPAH*PPDEIVEPG
4815	12866	A	5695	243	1660	AEPDTSPI*TPGQSGSS*GNTS/EPWTVTP PGLKMQQRVLCCTL*PP/RRLPVCRAA G*TRLDRA*ESGHPGPAVPREATGVPGA LPAQASVRSIWPALATCVATTVQTST/DA EVARQG/ICPAPHPAYPPA*PALCCPARA DPRGRVLQ**ADAVPGPPAI*AVHRAVS HPGGAQCPHPNPPAPQARVPRETCLPAL QLAAPVLRGAGATAASAPTEEEEEACLE EEEEEDSDEEDQSRGKDSEAWVPDSEE RLILREEFTSRMHQRFLDGKDGDFDYST VDDNPDFDNLDIRARDEEERYFDEEEPE DAPSPELDGD*WPPFPFPPAPSPSPTRQLI PGLLSDPFSRGTS/AAVPHNPHTPPSHWV *SHLRQPPPLFLGFPFSSLPPCLPLSFLV SVWASFCLFLSFCLSPYPRSLFPVLWLAV SPFLPLSLCLRLCLHRRAGQESPLAGGQ LAGPFVAGSGQFGSGADP
4816	12867	A	5696	7	558	GWLDLGLTKCVC*NAEVPCEWVRLMC MSVCASK/CGGGCGCLC/MASGHCECLG MCWSL*ACVFLSKNECLCVSLGTCQCL CLCVPVSHHL CIRVAHAASLCAMVCQC LCVDGWPMSPRQGRPGWLDPAHLPSG SLALWVRVTEAFCLGTGCSGSALRVA GGLPSLLPFRLVKRTPGGQGA
4817	12868	A	5697	272	1146	GFLGLEGLSSSPQVAWATVPLWAQLQ GGLAGSCLGQILAPGPSEARDWWASLA GP*ERVEGADRPWRFHLSPEALVLAAG R/SKARASDPGRSSTLSLLHVLKVEKRR VNLPRVLSMPPVAGTACHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEFLLRVFS TGRVSLSAIRAVAKNTTPGAALPAGEWG TGPIPG/CSWKFGQTAGGHKNFASYPTN P/CVPLFGSPKGPGRCVRTLHQHCRAIS DTEFHPIGFHIFQVPEGGRSQDAPLLQ DPLLSCVPHR\TPRR
4818	12869	A	5698	281	535	
4819	12870	A	5699	1	1014	
4820	12871	A	57	1	1513	
4821	12872	A	570	961	1627	LPHPAVAVIQNVRSRGRFGHSPTLVVIPG NPRHSRTITLIKLLHGIIIVIGRVKQRHPG CGQAKFIFFTLRQNKPNVVS GSTGRPKG VMVGQTAIVNRLW MQNHYP LTGEDV VAQKTPCSFDVSVWEFFWPFIAGAKLV MAEPEAHRDPLAMQOFFAEYGVTTTHF VPSMLAAFVASLTPQTARQSCATLKQVF ADLCREWQQLTGAPLHNGLCVFLMR
4822	12873	A	5700	155	2916	QKKAAGVLP GKFGYGTVPWQRAQQFQ TDKAKGLTFLGGKAVHLS*/HLEREQPPR FAQPGTYASRWKALEEMEKQOREQVDR NIREAKEKLEAEMEAAARHEHQLMLMRQ DPGLALVSCMQQGQSMSRSPKKVFKHL YELNLTKLQSLGSRSLRWKDSPPFWGEE AGGKRPLVSLALHRSPSLLLLFVPKHPS KGRPDCTVQRSPKPTEKSQLLDLRECISI HVGQAGVQIGNACWELYCLEHGIQPDG QMPSD

4823	12874	A	5701	37	1542	PREPTPPA/PPRQRTTRRRCGFTIDIKSF LKPGE\KTYTQRCRLFVGNLPTDITEEDF KRLFERYGEPSEVFNRDRGFGFIRL\ESQ NPWAEIAKAE\GRAPFLKSRPLRICFRL HMGAAFDCSRNLFSS\FFQLSCLEQ\AFS QFGS\VEKAGVVVDDRGVPTGK\GFVEF ASKNL\PATKRL\WKRC\CDGAFLLTTTPR PSPLWKPMEQF\DEEDGLAQRLLMHKTQ Q\YHKER\EQPPRFCSTWGH\LKFEYQSR WKA\LDEMEKQQREQVDRNIREAKEKL EAEMEAARHEHQLMLMRQDLMRRQEE LRRLEELRNQKLQKRKQIQLRHEEEHRR RE\EDMIRHQKQEG\LRQEQEGFKPNYM ENREQEMRMGDMGPRGAINMGDAFSPA PAGNQGP\PPMMGMNMNNRATIPGPPMG PGPAHGTRRSRKYGNSQ*QIMEQCTND RFPQGPSPQMGSPMGSRTF*NPLKHPM SGVGPVSGGPGGFGRGSP\GGNFEGPNN RRRY
4824	12875	A	5702	81	334	HNVHC*VPCGEVGSVIHCWWNGDNL* PS*KVSWKYESRAFKTSRPLDPTLLGI QSK*/YNKGHKDLDIRILIT\ALFVVTKKL
4825	12876	A	5703	3	448	WGPEP*/PTRPTLDEGPGCPGCGCSPSLP MGPPRGRGPPTSM\LLCRWPGVPLGSPP GCP\PRARVKLFPHPGPDVSTSPPWAGHG AHQDP*GPVSGSESP/PPAGHWAPPASTS SPKIQAGL*PE\GMRTAQPPSVAVGSPQG SFRHKEGWG
4826	12877	A	5704	1	206	GSL*SPSPRFKRFSCLSLLSSWDYKHVPP HLANFCIF*RDWVSPCWLGWSRTPDLH LSWPPKV\GLPS
4827	12878	A	5705	32	401	AFPDKLPWNFR\LCQVNR\CGISEWAGMS EMGMSDIQLSVGKLVAR\CWLQ\AEL*G* QFTKQER/CPSL\TRSRWHGQPREGQAER PFLCAPPEGAPIGFLR*HHLRVQLAMAWI KFKMLGQSPLPYI
4828	12879	A	5706	252	415	PFCRPPRADSVTKQER/CPSLTWIRWHGQ PQGGQAERPFLRAPPEGASTGFLRQHH
4829	12880	A	5707	2	164	FFLYLFLFLRWSL\DSVIQAGVQWHD\I CSLQPLPPGFK*FSDCSTVLQPGRQSETG LKYFFITV*EMESCSVIQAGVQWHDNLF PATASWVQVILRLLHCTPAWATE
4830	12881	A	5708	1334	1706	VRPHEGARAGPGGRGRGDPGLGARALP QPRVAVAGAACQPPSRLRHAGHRGPMV HAVGGSTFLGFRQ*LSSHSTRQCPSRD SVWGLQPHISLLHCP\SRGSP*GPHPCHRL LPGHPGISIHLL
4831	12882	A	5709	57	376	KRGSLSGCPRPRVQW/RKTLAQ\QPSKL PGLK*TFP/CLSLK*TGHTCAPLCPNFF VFLT\YLIEMGLTMLPRLVSYFWPQVFP SLASQSTGITGVSHHALAWWSMQ
4832	12883	A	571	803	1403	FNRRILKINGLTREQTS\GVQQIRQ\ALSA LPLPVNRLEEF\DNCREAWRKCAWLKD IESARLQHNQAYTEAML\TEYADFFRQVE SSPLNPAQARAVVNGEHSLLVLAGAGSG KTSVLVARAGWLLARGEASPEQILL\GL VAKPLKRWTS\GFANGYIPKTLPHARFMR /*ALHIIQQGSKKVP\IVSKLENTACRHEL FIA
4833	12884	A	5710	9	264	PCPPNTIN/CPLGLRLPC/PPHLCPSLCLGK VGGP*KVPQTPSLGETELEQKPPVPMA SGWTGGRNGGWEKSLRGKERRVFSQEG FP

4834	12885	A	5711	124	770	QYFPTATHGNVKKSLLSGKASLKRLHRV CCSCLFYIVQKQPKLNKTLFRQSYICDQT TFRKSKGIINIKFIFFFEMESRSVAQAGM QWRNLGSLQ/PPPPGFMPLSCLSLSSWD YKRPPPCPANFFVFLVETGFTVLARMVSI S*PCDLPASTSQSAGITDVSHHAWHIKFK PEVTWRERGREEHVDRHIFRLDIRFTDT HFIKKELMRSDDL
4835	12886	A	5712	2	232	CLSLSS*YYGRMSRPANF*FLVETGFH HIGEAGLELLTLGDPPASASQGAGITGVS QRGQSLFAFLMSSTSFCK
4836	12887	A	5713	1	242	QAGVQWHDLGSLQPPPLGKQFSCSLSP SSWDYRRVPPRLANFC/DFLVETEFHHV GQADLELRTSGNLPTSASQSAGITGVSH HA*PKVLGLQV
4837	12888	A	5714	1	133	ERLRYFRVEHLDQRLKAAENKFSYCLM TWLKCWFWCLEKFIKFLNRNAYIMIAFY GTNFTCSARNAFFLLMRNIIRVAVLDKV TDFLFLGKLLIVGSVGLAFFFTTHRIRI VQDTAPPLNYYWVPILTIVVGSYLIAHGF FSVYGMCDTLFLCFLEDLERNDGSAER PYFMSSTLKKLLNKTNKKAAES*RLRYF RVEHLDQRLKAAENKFSYVPHDLAQMR LLVPGEVHQIP
4838	12889	B	5715	166	969	MGSACIKVTKYFLFLNLIFFILGAVILGF GVWILADKSSFISVLQTSSSSLRMGAYVF IGVGAVTMLMGFLGCIGAVNEVRCLGL YFAFLLLILIAQVTAGALFYFNMGKLLQ EMGGIVTELIRDYNSREDSLQDAWDYV QAQVKCCGWVSFYNWTDNAELMNRPE VTYPCSEVKGEEDNSLSVRKGFCEAPG NRTQSGNHPEDWPVYQEGCMEKVQAW LQENLGIILGVGVGVAIIELLGMVLSICLC RHVHSEDYSKVPKY*
4839	12890	C	5716	300	347	MIHLPRPPKVLGLQA*
4840	12891	A	5717	316	797	APALPQPTGLAASSHMVQVPLWICLKLS HSKSRNSPQLFF*VFQFLRRSL/SSVPQAG VQ*HDLSSLQPP/PPGFTPFSCSLSPSSWD YRCPPPRPAKFFLYF**RRGFTMLARMV SIS*PRDPPASASQSAGITGVSHRARPPPP QFFIQLPLYNIHTLEGR
4841	12892	A	5718	2	519	WHPQSDVQAEVQWRDLGLLQSSVPPGF TLFSCSLSSWDYRRPPRPG*FLYF**R RGFTVLARMVSIS*LHDPALASQSAGIT GVSHRTRPGADL*PRVQKPRASLGG*NH MCNMKSLPTGQTRLNKGRRLGHPDHW RWKETPGL*CFHGNFCGALKAGRAHLD GQGR
4842	12893	A	5719	1	663	
4843	12894	A	572	3	1642	
4844	12895	A	5720	1	1561	MATSTGRWLLRLALFGFLWEASGGLD SGASRDDDLLPYPRARARLPRDCTVR AGNREHESWPPPPATPGAGGLAVRTFVS HFRDRAVAGHLTRAPELRTFSVLEPGG PGGCAARRRATVEETARAADCRVAQNG GFFRMNSGECLGNVVSDERRVSSSGGLQ NAQFGIRRDGTLVTGYLSEEEVLDTENPF VQLLSGVVWLIRNGSIYNESQATECDET QETGSFSKFVNVISARTAIGHDRKGQLV LFHADGHTEQRGINLWEMAEFLKQDV VNAINLDGGGSATFVLNGTLASYPDH CQDNMWRCPRQVSTVVCVHEPRCQPPD CHGHGTCVDGHCQCTGHFWRGPGCDE LDCGPS*LAAQHGLCNGSTGLSAVDAG WTGSNCSEECPLGWHGPGCQRPCKCEH HPCDPKGTGNCVSRVKQCLQPPEATLR AGELSFFTRTAWLALTLALAFLLISIAA NLSLLSRAERNRRLHGDYAYHPLQEM

						NGEPLAAEKEQPGGAHNPFKD
4845	12896	A	5721	1119	2008	ALHPPAQGELFCDYFKDPSWSEGPQSPP LTRLAPHPQTQCTELSGGRRGSAVLEEC VPTPASAHLAASPAEAGTAGVWR*RHH F/HSTGLLGPR*LSMSLLMS*CKAGRCPP GEDCPRPLPGCSLSPLERKLCFSSA*GPA SFLGGLTAKASGCSLSLRP/HSIQGHGL WEKL*VPARRAGGVCFKSA/PHLQSL** KPSSKASKREG*Q*TLPSATIGELPFK*HA PKHLCNAQGFLCKIH*HHK/QTANAICA* GGPGSLEGTLRRPGSPSSLGVGSGKTEV NSQNCRHLGREGVS
4846	12897	A	5722	3	444	FFFFLRLQSL/NSVI*AGVQ/QPLPPEFKRL SCLSLPSSWDYRCAPAHSANFCIFSKD/M GFTMLTRLVSNWQQ/CELPILASQSGIT GVSHHTQPIYHFIFVETEFHHVAQAGVK /PPSLK*SSRLSLPKQWNYSHEPLYPALF NETFFFK
4847	12898	A	5723	1	6738	
4848	12899	B	5724	107	467	MRLHETLKQCQDLKTEKSQMDRKNQ SEENGDLSEKREFASHLQQLQDALNEL TEEHSKATQEWLEKQAQLEKELSAALQ DKKCLEEKNEILQGKLSQLEEHLSQLQD NPPQEKGEALX*
4849	12900	A	5725	149	577	GLLSTRPISCRHTL*GPLQSSWEYMDVP WDLRASEGNGKLLYSARDCTLOQIHVSF QKLDVEEPDSANSSFYSTRSAPASQASLR ATSTQSLARLGSPDYGNSALLSLPGYRP TTRSSARRSQAGVSSGAPPGEGTTGTTY
4850	12901	B	5726	24	219	MPRSSRTKSCRSSCGAWSSCMKENKELR AEAERLGHELQQAGLKTKEAEQTCRHL TAQVRSLGCTX*
4851	12902	A	5727	272	683	
4852	12903	A	5728	1	406	
4853	12904	A	5729	211	5508	IWCLFPLSVHMGLIYSQKCLEEKNEILQG KLSQLEEHLSQLQDNPPQEKGEVLGDVL QLETLKQEAATLAANNTQLQARVEMLE TERGQQAELLAERGHFEEKQQLSSLIT DLQSSISNLSQAKEELEQASQAHGARLT AQVASLTSELTTLNATIQQQDQELAGLK QQAQEKQAQLAQTQQQEQASQRLRHQ VEQLSSSLKQKEQQLKEVAEKQEAQRD HAQQLATAAEEREASLRERDAALKQLE ALEK



4854	12905	A	573	114	5270	SARSASFRPQ AARRPKCSHPLVPDGV PECCCKCVHPASTNFPRTSTAARHSHHN DGSTSTMGRTWQI/VGYLVSQSGLPLDT SALQAQLRETLPPHMVPEVLLQLPQLPL NANGKLDKALPLPELKAQAPGRAPKA GSETIIAAAFSSLLGCDVQDADADFFALG GHSLLAMKLAAQLSRQVARQVTPGQV MVAHVAKLATIIDAEEDSTRRMGFETIL PLREGNGPTLFCFHPASGFAWQFVLSR YLDP
4855	12906	A	5730	111	407	NLLRTMIFWFGFEDRVWLCCPVLATSV LTATS/TFPGFKQFSCSLSSWDYRCIPP HPGNLWYF**RQGFTMLARLDSNSGPQA IHPPQPPKVLGLHV
4856	12907	A	5731	3	613	GLRALRRGQGLPGL*CCSRPQPSRAQG HPSMGGPMQVRTPPRGMASVGPQSYGG GMRPPNSLAGPGLPAMNMGPVGRGPW ASPSGNSIPYSSSSPGSYTGPPGGGGPPGT PIMPSPGDSTNSSENMYTIMNPIGQAGR ANFPLGPGPEGMAAMSAMEPHHVNGS LGSGDMDGLPKSSPGAVAGLSNAPGTPR DDGEMAA
4857	12908	B	5732	134	471	MYAKGGKGSAPVPSDSQAREKLALVYVE YLLHIGAQKSAQTFLSEIRWEKNIMPSPG DSTNSSENMYTIMNPIGQAGRANFPLG PGPEGMAAMSAMEPHHVNGSLGSGD MDG*
4858	12909	B	5733	223	692	MEPSPRAQGHPSMGGXMQRVTPPRGMA SVGPQSYGGGMRPPNSLAGPGLPAMN MGPVGRGPWASPSGNSIPYSSSSPGSYTG PPGGGGPPGTIPIMPSPGDSTNSSENMYTI MNPIGQAGRANFPLGPGPEGMAAMS AMEPHHVNGSLGSGDMDG*
4859	12910	B	5734	228	292	XLARDDHERVMGRQPRASLRA*
4860	12911	A	5735	1	1753	MYAKGGKGSAPVPSDSQARENLSAFQAA TELTSLDRLALVYVEYLLHIGAQKSAQT FLSEIRWEKNITLGEPPGFLHSWWYGL GCCGVFVWDL YCAAPDRREACEHSGEAK AFQDYETPERPAHRHGNAGRAGSSSGMI DVGGSSDPQILRPTTPVCSLTNASSLSHG AGHLQRGGGTPQSAAPSPVMGSMAP GDTMAAGSMAAGFFQGGPPGSPPHNP NAPMMGPHGQPFMSRPFPGPRPTLRD\ GSQPPAGPPWVPSPPSGAMEPSRAQG HPEHGRPNARGVTPPRG/MGPAWGPRA YGGGMRPPNSLTRPRACLPMNMGPRK FVGPPWAQPPVEYSIPYSSSSPGSYTGPP GGGGPPGTIPIMPSPGDSTNSSENMYTIM NPIGQAGRANFPLGPGPEGMAAAY\G\ GMEPHHVNGSLGSGDMDGLPREFPQAP VAGLSNAPGTPRDDGEMAAAGTFHAPS SQSENYSPGMTMSRVNWAAAPGALCG PRLPRRCLRAKGLKVTPSGTLDLAN QGLPMLGGPTRKTLTILLKTQGPRETFFS VWTLPAICILVPERKALWGGPSSPGRQG GGAH
4861	12912	B	5736	315	458	NGPSRTQQPSLTDVLYCPEAIVSLVGVLRL RLAACQEHKRAPEVYVAF*
4862	12913	A	5737	202	402	
4863	12914	A	5738	1	3156	

4864	12915	A	5739	1	1470	MAPEENAGTKLLQSFERRFLAARTLRS FPWQVGGGASGEACGACGSPGADGMG LPAETPGAPATEGSHSALPTHSIACFNVP VNAPLRFLSLPSTRSLEAKLRDSSDSELL RDILQKHEAVHTELLDELYEALAETLMA KESTQGHWSYLLPRYPSCDKVKTPRKA RSHSPSTAIISHGTTGLVTWDAARYLAE WAIKNLAAFTNRTVLELGSGAGLTGLSI CKM/WPPPDHLDHCHSRVLEQLRGNVL LNGLSLEADITANLDSPRVTVAQLDWDV ATVHQLSAFQPDVVITADVLYCPEAIVSL VGVLRRLLAACWEHQWAEVYMAFTVR NPETCQLFTTELAPSTCEGVLSLSHLTDK NTRTHRGQETPELPQIAARPPGFSFTVH PSPPLPPDFAPAPPEHSPSWQPCAKMHPQ QPLPAHRDMDDPVPVHVGGQPVNYRANK QASTRRHTGFHDRVPHNLAQEAGQAWG SGLSSQHFRRLRQED
4865	12916	A	574	1	2967	
4866	12917	A	5740	2	413	
4867	12918	A	5741	3	231	
4868	12919	A	5742	83	1503	SWNTPYNHWATKQ/LSSHYSRGGAKYE GEAVKQSLVESYTHPNSNETERSANIDT VMNWFTKEDDFVTLCYREPDNVGHRF RPEAENRKLMIQIDRTIRPWDDHREET QCQQDPLSNYIKFMDLVKFDIVGYGGFG MPLPKLGQEEALYQALKNAYPHLHIYK KEGFPEHFHLAKHDRVLPVVMYANFGYS INGISLLYFYTHLCDKYFNVHFFHEPLSL WRAQTTPSLSHRYISLVRHMDATNLDAS EAQLPGSPYPDSAPGPANLDSTQDLPQR RLSWPYPRPRPPNAHPGAPALQAPRTLLL TLPPGPAPSLPRTALGPPPLQSRPGFRPV SRQRCGPAHFMAPEENAGTELLQSFER RFLAARTLRSFPWQGGGGRAERPAGLA GVQGGTGWVSVLKPPALLPREFLGSPRS GPRDPVPVPGAWPKSLAPLLPRELAAED EGVSTALGGQTRARCGVQFTIIFTIF
4869	12920	A	5743	266	477	DFSLSRPHGA*KON*ETHQILSCC/GDILH KTVK/HSCVCEAPVRQICPVLSLRTHQK ARGCPHRAFGRAV
4870	12921	A	5744	148	592	SHVALGQLGWLTRAVRSSWRWELCVSS TGSGLPAPSLKQPKSCRCW*EEVKTGSC VGISHWQTST/VFPQAVFHLPPVLLPRSL ACLSCPRGCAQIR/CQ*TPPYPLFPILTY FGMLSSTVLIRHILETNKKEKSLAAEGV RHLQVS
4871	12922	A	5745	164	667	ERGTYICQITTSLYRAQQIILNIQASPKV RLSLANEALLPTLICDIAGYPLDVVVM WTREELGGSPSPSLWSSFSKPPQAKALAG TYSISSSLTAEPG/RLQVPLYTCQVTHISL EEPLGASTPGCPTRAENSLGSHLCQQSLP SCTDVPWGFDRDQAPNRTWAASG
4872	12923	A	5746	1	790	VEELSKKLADSDQASKVQQQKLKVGQL GEVWWPLDKGGKLFSLWGRGGLVYK WFLLIYKISYATGIVGYMAVMFTLFLN LLFKIKPEDAMDFGISLLFYGLYYGVLER DFAEMCADYMASTIGFYSESGMPTKHL DSVCAVCGQQIFVDVSEE/EDH*EHRC CFHEFCIRGWCIVGKKQTCPCYCKEVDL KRMFSNPYPLLGSLLGVGCGKKVLASVT CIWVLLGPSLLPPTRTCQTMNNKKIMKV MMRIKRMMDTDMAS

4873	12924	A	5747	1	1005	FRGRAVKMAA VVEVEVVGGAAGEREL DEVMSDLSPREEQWRVEHARMHAKHR GHEAMHAEMVLILATLVVAQLLLQW KQRHPRSYNMVTLFQMWVPLYFTVKL HWWRFVILWILFSAVTAFTFRATRKL VQTTPLVYKWFLLIYKISYATGIVGYM AVMFTLFLGLNLLFKIKPEDAMDFGISLLF YGLYYGVLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQIFVDVSE EGDHVETTYRLSCNHVSHEFCIRGWCIVG KKQTCPYCKEKVDLKRMFSPNWERPHV MYGQLLDWLRVLAWQPVIIIGVVQGIN YILGLE
4874	12925	B	5748	99	236	XTTSTSSTVTVTAPGPAATGSPVKKHRP LLPKETAPAVQRVVWNSSX*
4875	12926	A	5749	1	783	
4876	12927	A	575	1882	3402	LDASFWIPPKATQGMTWIFTFSSPSYNS S/CYAGWLKGSAPLQLSQPHHTAYIIFTS GSTGRPKGVMVGQTAIVNRLWMQNH YPLTGEDVVAQKTPCSFDVSQFFAEYGV TTTHFVPSMLAAVVASLTPQTARQSCAT LKQVFCSGEALPADLCRVWQQLTGAPL HNLYGPTEAAVDVSWYPAFGEELAQVR GSSVPIGYPGYLGRPDLTASRFIADPFA PGERMYRTGDVARWLDNGAVEYLGRS DDQLKIRGQRIELGEIDRVMQALPDVEQ AVTHACVINQAAATGGDARQLVGYLVS QSGPLDTSALQAQLRETLPPHMVPVVL LQLPQLPLSAKAGCPAAQVPRVAQVRV CAVLEDLGDIRESGERKQEADAVLGTQ DTPRVTSQPNGLLLKIEPQENVKIEGQHQ GLVWLCVAASPLVRVTREKEKKKEE GNNMRFTSLVLSVLVNIVRALEKKVLDI MFNNCRTGVQAITLSHRRALAIALAR YIKSALYDG
4877	12928	A	5750	1	1626	
4878	12929	A	5751	1	542	CGWNTGYCD/YPCQQAHPHEIKSCTQS NATALQQGADVEVNTEPLNKSSQSSSST QSAPSETAISASKEKETSAEKSKESGSTL DLSGSRETPSSILLGSNQGSVSKRCDKAT LLCPNHHRPPAAPQLPRPEVPPEL*NSR LSPPVFKKKGIRRVPIPTSTSTKSLLPKE SRLDTFWD
4879	12930	A	5752	1779	3628	MEISEDVYTAGHSDSESDSEKSDSSDSEF ISDDEQKSKDEPEDTEDKEGQMDKEPS AVKKKPKPTNPVEIKEELKSTSPASEKAD PGAVKDKASPEPEKDFSGKAKPSPHPIK DKLKGKDETDSPVHLGLDSDSENELVI DLGEDHSGREGKKNKEPKESPKQDV VGKTPPSTTVGSHSPETPVLTRSSAQT AAGATATTSTSTSTVTAPAPAATGSPV KKQRKLIPKETAPA\VQVRVVELIK*SF KRPPKSGTCRRCSVSSSSSSSTSSSSHQS SQGTRYQTRQAVKAVQQKEITQSPSTSTI TLVTSTQSSPLVTSSGSMSTLVSSVNADL PIATASADVAADIAKYTSKLMDAIKGT MTEIYNDLSKNTTGSTIAEIRRLRIEIEKL QWLHQELSEMKNLELTMAEMRQSW EQERDLIAEVKKQLELEKQQAVIDETKK KQWCANCKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSTQSATAPQAEADAENV TETLNKSSQSSSSTQSAPSETASASKEK ETSAEKSKESGSTLDLSGSRETPSSILLGS NQGSDHRSRNSKSSWSSSDEKRGSTRSDH NTSTSTKSLLPKESRLDTFWD

4880	12931	A	5753	2	1711	RSEDSEKSDSDSEYISDDEQKSKNEPED TEDKEGCQMDKEPSAVKKKPKPTNPVEI KEELKSTSPASEKADPGAVKDKASPEPE KDFSEKAKPSPHPIKDKLGKDETDSP VHLGLSDSESELVIDLGEDHSGREGRK NKKEPKESPQDVVGKTPPSTTVGSHS PPETPVLTRSSAQTSAGATATTSTSTV TVTAPAPAAATGSPVKKQRPLLPKETAPA VQRSCGTSTTVQKEITQSPSTSTITLVT STQSSPLVTSSGSMSTLVSSVNADLPAT ASADVAADIAKYTSKMMDAIKGTMTEI YNDLSKNNTTWKAQLAEDSQGLRIEIEKL QWLHQQELSEMKNLELTMAEMRQSL EQERDRLIAEVKKQLELEKQQAVIDETKK KQWCANFKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSCQSAYCSSSRKADAE VNTETLKLSPSQGSSSTQSAPFRKRPAP SKEK\ETFLRKAKESGSTLDLGSRETPS SILLGSNQSDHSR\SNKSSWSSSDEKRG S\TRSDHN/TPSTQHGRSLLPGKESRAGTP FLGTSK
4881	12932	A	5754	1	191	MQK*ITAWAPAPMKIKIIASPERKYSVWI GGSIWPQLST/FQQMWISKQEYDESGPSI VHRKCF
4882	12933	A	5755	2	1203	LSRRCOLSHSVLPPLRRRVSLPVAMEEEI AALVIDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGVMMVGMGQKDSYVGDEA QSKRGILTLKYPIEHGIVTNWDDMEKIW HHTFYNELRVAPEEHPVLLTEAPLNPKA NREKMTQIMFETFNTPAMYVAIQAVLSL YASGRTTGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLTDYLMKILTERGY SFTTTAEREIVRDIKEKLCYVALDFEQEM ATAASSSSLEKSYELPDGQVITIGNERFR CPEALFQPSFLGMESCGIHETTFSIMKC DVDIRKDLYANTVLSGGTMYPGIADR MQKEITALAPSTMKIKIIPPERKYSVWI GGASILASLSTFQQMWISKQEYDESGPSIV HRKCF
4883	12934	A	5756	3	412	SRFPEGLFQPFPGMKSCGIHETTFHSH/ IKFDVAIR\KDLYANTLLPGGNHQVSGAL LTGMQKEIHAPAAQATLRFKIAPPGSAS TRW/VGSGVGSILASLSTFQQMWISKQE YDESGPLHSSTAKCFLNGLSQIA
4884	12935	A	5757	1	2297	MGRDWSLESLEEDRKMRESLEHARDL LNCCDQNAADHHMDSEVQAEVVSEGDEE LIGKWSKAYCHRCEQKDDLKWELIFKRE AEHKSLEILQPDHVVEKKNPGGGRNQST SSSWVGTVAEITTIEAVKCKIQVLQQA DDAEERA\ERSQREFREERRARE\QAEAE VASLNRRIQLVEEELDRAQERLATALQK LEEAELSLADESERRY*RLFEN\ALKRL KEKIGTSREIQLK\EAKHIAEEAD\RKYEE VARKLVIIEGDLERTEVERA\ELAESRCR EMDEQIRLMDQNLKCLSAABEEKYSQKE DKYEEEEIKLTDKLKEAETRAEFAERSVA KLEKTIDDLDTNSTSGDPVEKKDETFFG VSVAVGLAVFACFLSTLLLVLNKCGRR NKFGINRPVLAPEGLAMSLHFMTLGG SSLSPTEGKGSGLQGHIIENPOYFSDACV HHIKRRDIVLKWELGEGAFGKVFLAECH NLLPEQDKMLVAVKALKEASESARQDF QREAEELLTMLQHQHIVRFFGVCTEGRPL LMVFEYMRHGDNLNRFLRSHGPDALLA GGEDVAPGPLGLGQLLAVASQVAAGMV YLAGLHFVHRDLATRNCLVGQGLVVKI GDFGMSRDIYSTDYRVGGRTMLPIRW MPPEILYRKFTTESDVWSFGVVLWEIFT YGKQPWYQLSNTAIDCITQGRELERPR

						ACPPEVYAIACWQREPSNATASRMC TPGCKPWPRHLLSTWMSWARGPAQGLG VVSRTGACPQHPP
4885	12936	A	5758	3	636	WAWNQAEAEVASVNGRIQLVEEELDCA QERLATALQKLEEAGKAADESERGMKV IENRALKDEEKMELQEIQLKEAKHIAEEA DRKYEEVARKLVIIEGDLERTEVERAELA ESRCREMDEQIRLMDQNLKCLSAEEK YSQKEDKYEKEIKLTKLREAETRAEF AERSVAKLEKTIDDLEDKLKCTKEEHL TQRM LDQTLLDLNEM
4886	12937	A	5759	1	239	QCCSGGTHGNPAIGDRWMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
4887	12938	A	576	22	413	
4888	12939	A	5760	3	1458	ADPPPVHTRRQLTMDDDIAALVVDNGS GMCKAGFAGDDAPRAVFPSIVGRPRHQ GVMVGMGQKDSYVGDEAQSKRGILTLK YPIEHGIVTNWDDMEKIWHHTFYNELRV APEEHPVLLTEAPLNPKANREKMTQIMF ETFNTPAMYVAIQAVLSLYASGRTTGIV MDSGDGVTHTVPIYEGYALPHAILRLDL AGRDLDYLMKILTERGYSFTTTAEREIV RDIK/EEAVLRRPGLRARDGHVASSSSLE KSYELPDGQVITIGNERFRCPEALFQPSFL GMESCGIHETTFNSIMKCDVDIRKDLA NTVLSGGTHQFPLPCRPGC*KKITALEP ATMKIRIIA/PPEAQSTPLWNRGAPILAS LVHLPKMWQDQKSREYDESGPLPFVHR KICFF
4889	12940	A	5761	171	324	
4890	12941	A	5762	3	383	
4891	12942	A	5763	2	314	FFFFISALKALFAFLQILLFQVNVLRITAH IVISFINLLSVTPSKAFLLAFICREDYSF TAYATISYLKIGPKANLLNNEAYVITMQ VTKSTQNSFRVNGY
4892	12943	A	5764	1	176	MRTFALLTAMLLLVA/HAQAEPLQARAD EAAAEQPGADDQEMAHFTWHESAA LPLSA

4893	12944	A	765	1	2674	GKHKLLSTGPEPWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELCNDIA KKKLEEEAEVKKRATDAAYQARQAVK TPPRRLPTVMVRSPIDSASPGGDYPLGDL TPTTMEEATSGVTPGTLPTPVTSPFGIPD TLPPGSAPLEAPMTPTVDDSPQKKMLGQ KATPPPSPLLSELLKKGSLLPTSPRLVNES EMAVASGHLNSTGVLLLEVGGVLPMIHG GEIQQTPTNTVAASPAASESVSQATIVMM PALPAPSSAPAVSTTESVAPVSQPDNCVP MEAVGDPHTVTVSMDSSSEISMIINSIKEE CFRSGVAEAPVGSKAPSIDGKEELDIAE KMDIAVSYTGEELDFETVGDIIAIEDKV DDHPEVLDVAAVEAALSFCEENDDPQSL PGPWEHPHQERDKPVPLPAPEMTVKQE RLDFEETENKGIHELVDIREPSAEIKVEPA EPEPVISGAIEVAGVVPATSMPEPPELRSQ DLDEELGSTAAGEILEADVAGKGDETPL TNVKTEASPESMLSPSHGSPNIEDPLEAE TQHKFEMSDSLKEESGTIFGSQIKDAPGE DEEEDGVSEAASLEEPKEEDQGEGLSE MDNEPPVSESDDGFSIHNATLQSHTLAD SIPSSPASSQFSVCSEDQEAIAQKIWKK AIMLVWRAAANHRYANVFLQPVTDIA PGYHSIVQRPMDLSTIKKNIENGLIRSTA EFQRDIMLMFQNAVVMYSSDHDVYHM AVEMQRDVLEIQQLATQLIMQTSSEGI SAKSLRGRDSTRKQDASEKDGGRTRRR CAIEADMKMKK
4894	12945	A	5766	1	419	YANVFLQPVQDDIAPGSPSIGQRPMDL ST/IKKNI*NG*SEAPADFQR*HMLMFQN LLMYHSSDHYFYHIAVEMQRDVLEIQ QFLATQLIMQTSSEGSASAKSLRGRDSTR QDASEMDGGTRGRVCAIEADMKMK K
4895	12946	A	5767	2	111	ISAKSAVRGRDSTRKQDASEKDSVPMGSP AFLLSLF
4896	12947	A	5768	3	2884	GKHKLLSTGPTPEPWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELCNDIA TKKLEEEAEVKKRATDAAYQARQAV KTPPRRLPTVMVRSPIDSASPGGDYPLGD LTPTTMEEATSGVTPGTLPTPVTSPFGIP DTLPPGSAPLEAPMTPTVDDSPQKKMLG
4897	12948	A	5769	3	627	PRGENRFKAQPEWRKTPCQMMLSQSTF RKTIVYIGKIFTTILALPYVGKELNMIIML PDETTDLSTVEKDSHAKFVEWTSLDM MAEEEVKLSIPRFKLEESYDMESVLRNL GMTDAFEAGARANFSGMSQTDLSLVQR SCTKSICGRSNEGRPREAASPPKVAIIMM MRCAIRFCPPPPAPDHPFLFIFIQHRKTN GULFCGRFSSP
4898	12949	A	577	1	2148	
4899	12950	A	5770	3	626	YNLVTFRLAVLSFEKDDDHNGHIDFITA ASNLRAKMYSEPADRFKTKRIAVKILV KPTTTGTVSGLVCFEMIKVTGGYPFAAY KNCFLNLSHS/IFVVFTETTEVRKTKIRNG ISFTIWDRTVHGKEDFTLLDFINAVKE KYGIEPTMVVQGVKMLYVPVMPGHAK RLKLTMHKLKPTTEKKYVDLTVSFAPD IDGDEDLPGTSK
4900	12951	A	5771	92	265	SFELFADKVPKTA/WLDGKHVVFGKVKE GMNIVEAMERFGSRNGKTSKKITIADCG QLE

4901	12952	A	772	1	1310	GNSPPSELK...KSEDLRHRGLKAQAEI KGSTQQIGFTTDPMARSSPYPTDVARV VNAPIFHVNSDDPEAVMYVCKVAAEWR STFHKDVVDLV CYRRNGHNEMDEPMF TQPLMYKQIRKQKPV LQKYAELLVSQG VVNQPEYECVSMHGVRNKPSYNSTKSS MDGLILHPATGLVFVLSKQCEEIHQPVV WTCEQREAEENATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVGRAAACGNGA QKVGRGRENFPCL*ATGEK\GFWL*GVP CFHRLFPRLVLCVQGELQQRH*WPLVG KPHSMGKKI*KIEELPSLKHTGSPGILSP WQNAGPQTTNGFPSFSICTAKTNEWLEW PSHVVFWHK*KEGWMNIVEAHWSRFGS RWNGKTQQRSPFADCGQLLISLTCVFILT TKIISFCRLRRAPLQPHLLAVS
4902	12953	B	5773	47	204	XQHTFCKRCGVQSFYTPRSNPGGFGIAP HCLDEGTVRSMVTEEFNGSDWEKA*
4903	12954	A	5774	2	402	CGDRGALRPPSCAGRS GPGPPRPPRPP LPWHPAPPAHGA PLARPGARARSEKPP SEKPRLRSSPRAQEEGPGEPPPELALLP PPPPPPPTAPRRRPPRPPGPGRAAGALG DVPEAAEAYLERVPPSSC
4904	12955	A	5775	2	241	FSCLSLKSWDYRALPPSPANLFLVETG FHHVGGQASLKLLTSGDPPASASQTVGIT GMSHAWPVSSFYIWSHWAPRNS
4905	12956	A	5776	22	643	VVEFPVLTMAATSGILSALGNFLAQMIE KKRKKENSRLDVGGLRYAVYGGFFFTG PLASHFFYFFMEHWIPPEVPLARVRRLLL DRLFFAPAFMLFLIMNFLEGKDASIT FAAKMRGGFWPAAEDETCTRVWTPLOF INNNYVPFESSGCFQGPGQLLFWYAYL ALLGEVTTTRWENIRCTCGRGSGGLHPPK REQKPIQSGCH
4906	12957	A	5777	23	448	ELESRSVTQAGVQWCDLGS LQPPPL/SF KQFSFLSLLSSWDYRHVPPCANVCILVE MGLVGQAGLELLISSDTPISVSQSAGIISV SHGTQPHIGNFLEQLKVVLQCYTSFLCFT KSSTVKHIQLIHKITLRNTKNKARI
4907	12958	A	5778	25	396	ISGRSTFSLFSRQGLSALSPRLE\CSVAISA HCNLR LPGSSN\GTTGA*HHTRLILYF/LA EMGFHHVGQAGFEVLTSSNPPASASTSA RITGMSNRT\GHLFNHP*MCYKYRCGS LAGRGGSRW
4908	12959	A	5779	80	460	YISLNVTTHLIFFFFLROGL\CSVTQAGV QWCNLGSLQPLPRFK\NWDYRCVTPH LANFVFLVEMGF/LPASASQSAGITGVSH CTQLGVFICICYGSSHGVRQSWHQFCSS KLLVKSGRVGVGLLG
4909	12960	A	578	222	666	SLCFCFLEVSLPACQETYGKSPFWLSIPF EDIARNLMKRTVCAKS\ FELWGHGQSPE ELYSSLKNYPVEKMVPFLHSDSTYKIKIH TFNKTLTQEEKIKRIDALEFLPFEGKVNL KKPQHVFVLEDDYGLDPNCIPENPHNIYF GRW
4910	12961	A	579	1664	1844	WQKLLFLFGTESCSVARVGVQWRHLSS PKPPPP\GSSNS/PASASRVATGAHLHAR LIFVFL
4911	12962	A	5792	16	301	IFASTAPKRSWARLGPPQILVSVATKASF GAPTIPSRVPGPQSVFANSDFPAPPQIPSR PVRIPP GIPPGVPRRPPAAPSRTIIRPAEP SLLD
4912	12963	C	5793	78	209	MSVFXXXXXXXXXXXXXXXXXXXXXNEET NHPLGVVYRLSDSTQYI*
4913	12964	A	5794	119	231	

4914	12965	A	795	69	909	EWCLLSPECHFHLIWGITELKTKRRGR KPSRPPMCYGKCARCIGHSVLGLAILCI AANILLVYFPKGETKNAS\ENHLSRFVWF FSGIVGRL/VLLMLPAQHFLHWGLEQD DC\CGCCGHEN\CGKRCAMLSVIGWLS IG\AGSGLLWSIV/VQPLGLARKDPLCLD S/LSGQWKLQPLSTEGPVTFWITSTWS\E CTEPKH\VKWNVSLFSILLALGGPELILC LIQVINGS/VLGGICGFCCSHQQQYGLAK RTNPGTEPQSFLYFHCNLSYLHLYSIC
4915	12966	A	5796	1	200	RGPVLLDTS/TWARCNEPKPI/VEWNDTL FSN/LLASGGIEFILCLIQVINGVLGGICGF CCSHQQQYDC
4916	12967	A	5797	2	424	RLSLTLVAQAAVQWHNLGSLQPPPGFK RFSCSLPSSQDHRHTPPCPA/NSFVFLVE TRLHHAGQAGLKLPTSG/DTSSASQSAR ITGVSHRARCWDSNSTIFLGLANSNWR NVFLIVGGERIKGKHTHFNTISMSEFEE
4917	12968	A	5798	46	626	
4918	12969	A	5799	1	1004	MWLILAGLAWAGLWVSDGLKDVLMVA KGKSRRGKSAPKHIMSLGPLLMIAFAICH FASVMGFHYLEVNLRLQQCFKYQLIETA FAVLVQSVLRIYSSRIWDKTSLECLKVLT GHTGSVLCLQYDERVIVTGSSDSTVRVW DVNTGEVLNLIHHNEAVLHLRFSNGLM VTCCKDRSIAVWDMASATDITLRRVLVG HRAAVNVVDFDDKYIVSASGDRTIKNR DKAEVAYTNLVWSTSTCEFVRTLNHGK RGIACLQYRDRLVVGSSDNTIRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGA Y/DMGFSSLELLATWLPNA*GSFTAEL
4919	12970	A	58	1107	1365	HSGSAGMHWNLFLVHCMQAH*LFDR LHMM*CNRG*FALCTRC*DSGAN WDK*KNILPLRNFVGLGFNRDLGSRGW VPEV
4920	12971	A	580	3	439	
4921	12972	A	5800	1	3084	
4922	12973	A	5801	3	265	
4923	12974	A	5802	242	401	DLYAATYSHSHT/ILVWSTSTCEFVRTLN GHKRGIAQLQYRDRLVVGSSDNTI
4924	12975	A	5803	2	385	FVFAAARGERGFGAGVMEPDVIEDKT IELMLPKCMFGILLKKAGYSKRKESWK MLDCCLFSD*SERENPHSFWIGGSEVQNI FQNTSMEDQNEDESPKKNTLWQISNGT SSVIVSRKRPSEGNH
4925	12976	A	5804	1	1248	
4926	12977	A	5805	2	1653	RGGAAGAAMEPDVIEDKTIELMCSVPR SLWLGCANLVESMCALSCLQSMPSVRC LQISNGTSSVIVSRKRPSEGNQKEKDL IKYFDQWSESDQVEFVEHLISRMCHYQH GHINSYLPMLQRDFITALPEQGLDHIAE NLSYLDARSLCAAELVCKEWRVISEG MLWKKLIERMVRTDPLWKGLSERRGW DQYLFKNRPTDGPPNSFYRSLYPKIIQDIE TIESNWRCGRHNLQRIQCRSENSKGVYC LQYDDEKIISGLRDNSIKIWDKTSLECLK VLTGHTGSVLCLQYDERVIVTGSSDSTV RVWDVNTGEVLNLIHHNEAVLHLRFS NGLMVTCKDRSIAVWDMASATDITLR RVLVGHRAAVNVVDFDDKYIVSASGDR TIKVVSTSTCEFVRTLNHGKRGIAQLQY RDRLVVGSSDNTIRLWDIECGACLRVL EGHEELVRCIRFDNKRIVSGAYDGKIKV WDLQAALDPRAPASTLCLRTLVEHSGR VFRLOFDEFQIISSSHDDTILWDFLNVPP SAQNETHSPSGITYTISR



4927	12978	A	5806	1	180	NFKRFHKTIASASYWPK/DRHINQRN/ RESPVINPTTYGQLIVDKGAKNTQWGKD NYFN
4928	12979	A	5807	1	355	
4929	12980	A	5808	81	474	LGERRRASLSLSLTPGRRRGFKVATQER NPQRAQMRLRRQKKGVVPFWGDFLTE LQ/MGLDSAIPGRPWMATPNKRSKEVRV LQEMQLLQVAAMNYRLRPLEKFVITYFT RMEQLSDKESYKLSCQLEPENQ
4930	12981	A	5809	3	383	
4931	12982	A	581	1	691	MDQDSASTKTCPGTHRKSGRSREQHG ALGAANAHDTVRDGERYDRWSGPRRRE QHGAALGAANAPDTVRDGERRSLRRDWR DCAEATADVSGVRSLSRLLSARRLALAL AKAWPTVLQGTGRGVHFTVDGNKRASA KVSDSISAQYPVVDHEFDVAVVVGAGGA GLRAAFGLSEAEFDACVTKLFPTRSHT VAAQLENYGMPFSRTEDGKIYQRAFGG QSLKFGKGRQA
4932	12983	A	5810	1	148	
4933	12984	A	5811	3	1219	PGAMATLSFVFLLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVPNP EGFNLRRDVYIRIASLLKTLKTEEWVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGRWFWGYEETRGLNVSCLS VQGSASIVAPLLLRNTSARSVMLDRAEN LLHDHYGGKEYWDTRSMVFARHLREV GDEFRRHLNSTDDADRIPFQEDWMKM KVKLGSALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKKLLPEMVRFEPTWEEL ELYKDGGVAIIDQWICAHASS*SAAGEPE TSCAGAGGTGRPLT
4934	12985	A	5812	75	130	IHRE*VPAAQGELRGAAE
4935	12986	A	5813	1	1940	MATLSFVFLLLGAVSWPPASASGQEFWP GQSAADILSGAASRRRYLLYDVPNPPEGF NLRRDVYIRIASLLKTLKTEEWVLVLP WGRLYHWQSPDIHQVRIPWSEFFDLPSL NKNIPVIEYEQFIAGAQLSHAASFPKC FSEMDLKWMSFVPPQLEPLHPKKAATP GCYSDRTRLPVRKAVLRSGRRTACGVCF VVSQCSARDKELHLRDAPSRFVPAPEFH LRGAPSRFVPAPELHLRGAPSRFIPAAFE QILADLLGVTVPSPWCGSGQSGGPFIDQ VYVLQSYAEGWKEGTWEEKVDERPCID QLLYSQDKHEYRCLLRLPLPQGWRS QSQVSIAIKGSDTRPPVEKLSVNSLHVS SARAAGSKAWQGSASIVAPLLLRNTSAR FERWDYSLQRVFSVGVDFRIDGVTFHSH PWFCDRPADVFTRAAACKAGTCLQETQ SLLTWDFVQTRSMVFARHLREVGEDEF RSRHLNSTDDADRIPFQEDWMKMVKL GSALGGPYLGVHLRRKDFIWGHRQDVP SLEGAVRKIRSLMKTHRLDKVFVATDA VRKEYEELKKLLPEMVRFEPTWEEL ELYKDGGVAIIDQWICAHARFFIGTSVSTFSF SDS*GKEKFLGLDPKTDVQQVLRREG V

4936	12987	A	14	3	1286	PGAMATLSFVLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVPNP EGFNLRRDVYIRIASLLKTLKTEEWVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGRWFWGYEETRGLNVSCLS VQGSASIVAPLLLRNTSARSVMLDRAEN LLHDHYGGKEYWDTRRSVMFARHLREV GDEFRRHLNSTDDADRPFQEDWMKM KVKLGSAALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKLLPEMVRFEPTWEEL ELYKDGGVAIIDQWICAHARCLPTSLSAE SGSGGFQRFPCPKYSVSEQMVACVHSGH FHTVCLLV
4937	12988	C	5815	164	391	
4938	12989	C	5816	321	341	MAALAS*
4939	12990	A	5817	128	526	FFFFIFKTASHSVVQAGVQWRSLSMQP PPPGLKQFSHLSLLGWSWIKGHLPHPSNFC IFSRDGVSPCWLGWSQTPGLRPQSPKC LGLTGCEATSPWPASLKFLKNCVFHLP YVYLLHVLGPRSCYLOKW
4940	12991	A	5818	3	273	RRPRQRPTDQTQWFSILPDFSLDLQEGPS VESQTHSDPHIPPVDPTTHLTFNHLISVC VSLTSLPHLGSPCLWSPALVSQEAASH QDRR
4941	12992	A	5819	1	861	MLDSSLALGGLVLLRDSVEWEGRSLLK ALVKKSALCGEQVHILGCEVSEEEFREG FDSINNRLVYHDFRDLNWSKTEEF PGGPLGALRAMCKRTDPVPTIALDLSL WLLRLPCTTLCQVLHAVSHQDSCPGDS SSVGKVSVLGGLHEELHGPVPGALSSL AQTEVTLGGTMGQASAHILCRRPRQRP NYQTQWFSILPDFQPGSPRGALCRVPA LIPHIPPKEREARDSLILPFQFSSEKQQA LLRPRPGQATSHIFYEPDAYDDLDQEDP DDDLDI
4942	12993	A	582	306	458	IYIFLLNCIFLIIIIYFETESCSVAQAGWV QWHDLGSLQALPPGFTPF
4943	12994	A	5820	2	494	LGLLHEELHGPVPGALISLAQTEVTLG GTMGQASAHILCRRPRQRPTDQTRVSI LPDFSLDLQEGPSVESQPYSDPHIPPVSK NAKARTRKCSLVSGHGRENKSCRWGW WGQGF*GWGRVAASFVPAQVDPHTHLTF NLHLSKKEREARDSLILPFQFSSEK
4944	12995	A	5821	1	498	VRKVSVLGLLHEELHGPVPGALSSLAQ TEATLGGYH/VGQASAHML/CRRPRQRP TDQTQWFSILPDFSLDLKEGPSVESQPY DPHIPRVDPTTHLTFNLHL/SKKEREARD SLILPFQFSSEKQQA/LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNLPQGI
4945	12996	A	5822	3	322	HERQMALLKANKDLIPDGMTELTPLLQP LGFEDPVVCEQDVVTAGQDWVTTYDR DYGQQVTGEPQERDKALQELRQELNTL ANPFLAKYRDFLKSHELPHPSS
4946	12997	A	5823	3	276	
4947	12998	A	5824	151	204	SGEPFISGRFWWLQDG/DLMTLPRLVS NSWLKQSSHLGLLKHWDYMSEAPHLAK NFLKAYEVVSLSFHVEGSGGCRMA
4948	12999	A	5825	175	456	IHFVLISAHAVGCEGILWGGWSLRGVGV PHSSAKRS*VGIRGPGKGRPGAQLPAGR ARASTEVPISGAPCPLLGAKNDRGLHAP KRTGTGPSNH

4949	13000	A	526	188	269	IHFVLISAHAVREGISPIEEMGVSAISIQ EACSPGLQWATSFLASAWVSAPLLQMA HICPIILLGSLKGARATNRFRQSLFVQGV SFPARFPHLDLLQ*P*KNDWTDVSHLE QRGTNPG*RQE*SGPLQWVRAGFLDGQC
4950	13001	A	5827	1	542	
4951	13002	A	5828	2	889	RGLRIPTWALQELAGRVTRRGPEGEGR REPGGASPMRAAFPAGGAGGSVEPPSA RPAPQPAGTAARSEEAPARAQAAGMAG PGWGPRLDGFILTERLGSPTYATVYKA YAKKDTREVVAIKCVAKKSLNKASVEN LLTEIEILKGIRHPHIVQLKDFQWSDNIY LIMEFCAGGDLRSFIHTRRILPEKVARVF MQQLASALQFLHERNISHLDLKPQNWLL SSLEKPHLKLADFGFAQHMSPWDIEKH VLRGSPLYMAPEMVCQRQYDARVDL WSMGVILYGETSFPCFSP
4952	13003	A	5829	297	331	
4953	13004	A	583	47	358	SLLTPLVSPVPACPCPSKSESVVPQEHPLP CRPLFRVWRNRQSRGCPQGVHYGAGA WGLLPVWKSCPPAKTCKWGLP/CPPC GRSCLHSGAALCLLCGSA
4954	13005	A	5830	3	405	
4955	13006	A	5831	3	408	
4956	13007	A	5832	1	530	
4957	13008	A	5833	198	1175	RANPFRMGNHAGKRELNAEKASTNSET NRGESEKKRNLGELSRTTSEDNEVFGEA DANQNGTSSQDTAVTDSKRTADPKNA WQDAHPADPGSRPHLIRLFSRDAPGRED NTFKDRPSEDELQTIQEDSAATSESLDV MASQKRPSQRHGSKYLATASTMDHARH GFLPRHRDTGILDSIGRFFGGDRGAPKRG SGKVPWLKPGRSPLPSHARSQPGLCNMY KDSHHPARTAHYGSLPQKSHGRTQDEN PVVHFFKNIVTPRTPPPSQGKGAEGQRP FGYGGRASDYKSAHKGFKGVDQAQGTLS KIFKLGGDRSRSGSPMARR
4958	13009	A	5834	1	651	MGNHAGKRELNAEKASTNSETNRGESE KKRNLGELSRTTSEDNEVFGEADANQN NGTSSQDTAVTDSKRTADPKNAWQDAH PADPGSRPHLIRLFSRDAPGREDNTFKDR PSEDELQTIQEDSAATSESLDV MASQKRPSQRHGSKYLATASTMDHARHGFLPRH RDTGILDSIGRFFGGDRGAPKRGSGKRLT PPGKNCSLRVPAPEVTRPDPR
4959	13010	A	5835	3	208	
4960	13011	A	5836	71	394	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSVELEDKKELSESEDEEL QLEEFPMKLTDPKDWKNQDHYAVLGL GHVRYKATQRQIKAARKYLVILK

4961	13012	A	337	146	1910	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSASTLCQVEPVGRWFEA FVKRRNRNASASFQLEDKKELSEESQD EELQLEEFAMLTLDPRDWKNQDHYAV LGLGHVRYKATQRQIKAAHKAMVLKH HPDKRKAAGEPIKEGDNDYFTCITKAYE MLSDPVKRRAFNSVDPTFDNSVPSKSEA KDNFFEVFTPVFERNRWSNKNVPLG DMNSSFEDVDIFYSFWYNFDSWREFSYL DEEEKEKAECRDERRWIEKQNGATRAQ RKKEEMNRIRTLVDNAYS CDPRIKKFKE EEKAKKEAEKKAKAEAKRKEQEAKEKQ RQAELEAARLAKEKEEEEVRQQALLAK KEKDIOQKKAIKKERQKLRNSCKIEEINEQ IRKEKEEAEARMRQASKNTEKSTGGGG NGSKNWSDDLQLLIKAVNLF PARTNSR WEVIANYMNIHSSSGVKRTAKDVGKAK SLQKLDPHQKDDINKKAFDKFKKEHGV VPQADNATPSEFEGPYTDFTPWTTEEQ KLLEQALKTYPVNTPERWEKIAEAVPGR TKKDCMKRYKELVEMVKAQKAAQEQV LNASRAKK
4962	13013	A	5838	1	1909	DVSRCAHRARPGAIMLLPSAADGRGTA ITHALTSASTLCQVEPVGRWFEAFVKRR NRNASASFQLEDKKELSESEDEELQLE EFPMLKTLDPKDWKNQDHYAVLGLGH VRYKATQRQIKAAHKAMVLKHHPDKR KAAAGEPIKEGDNDYFTCITKAYEMLSDP VKRRAFNSVDPTFDNSVPSKSEAKDNFF EVFTPVFERNRWSNKNVPLGDMNS SFEDVDIFYSFWYNFDSWREFSYLDEEE KEKAECRDERRWIEKQNRATRAQRKKE EMNRIRTLVDNAYS CDPRIKKFKEEKA KKEAEKKAKAEAKRKEQEAKEKQRAE LEAARLAKEKEEEEVRQQALLAKKEKDI QKKAIKKERQKLRNSCKTWNHFSDNA ERVKMMEEVEKLCRLELASLQCLNET LTSCTKEVGKAALEKQIEEINEQIRKEKE EAEARMRQASKNTEKSTGGGGNGSKN WSEDDLQLLIKAVNLF PARTNSRWEVIA NYMNIHSSSGVKRTAKDVGKAKSLQKL DPHQKDDINKKAFDKFKKEHGVVPQAD NATPSEFEGPYTDFTPWTTEEQKLLEQ ALKTYPVNTPERWEKIAEAVPGRTKKDC MKRYKELVEMVKAQKAAQEQV LNASR AKK
4963	13014	A	584	1248	1667	TNTGGWGPRHHAFVQHTLELLSLLCLNC GFLVYPFFLSWTVMYGSVNLVNLKYG FQGIVVFYYCVIKLKKIWLCLPRPRIVP WLPTSDPSLRSPSSMVLNQICRVYSATK RGSVTGSWAYPCVLSRGMMSELCKSRA
4964	13015	A	5840	3	231	SFFETESCSVAHPGAQWCDISSLP PPPPGV SSDCPASASRVAGITGTHHHAWPIFVFV VETGFHCLPQPPIVLGLQA
4965	13016	A	5841	2	300	RRRLALSPAGVHWHGLGSLQPPPPWFER FSCLGLLSGWDCRRAPPRPASFFVLVET GFRHV GKDGLDFLT/S/GDPPALASQGA WUAGVSHRTRPQIHFF
4966	13017	A	5842	227	290	
4967	13018	A	5843	1	225	HCNFPPLPVQAILGSSNSRASASRVAGTTG ALQHMQILIFCILVETGFHRVAQAGDLL SLTIHPPRPPKVLGLQA
4968	13019	A	5844	3	147	LEIFFFFSFTFF/CRWGLTMFIRLVNFW PQMILLPLPLPPKVLGLQA
4969	13020	B	5845	47	241	GGKDFNMPLTISRITPGSKAAQSLSQG DLVVAIDGVNTDTMTHLEAQNKIKSASY NLSLTLQK*

4970	13021	A	546	3	408	CGGIPSQATIPFSTLISSVTSLNSTSFSTK VHTLSQNLVVFREPLKLTFLTL*ASAAF IALSN*SRT*RASWGVIC*DCMSSSRPPE DCFPK*YFCITDMPWLRKRNFFSTFQSK CRF*GTPICQKDKTSKK
4971	13022	A	5847	1	2209	AAADSTSMYSVTLTGPGPWGFRLOGG KDFNMPLTISRITPGSKAAQSQSLQGDV VAIDGVNTDTMTHLEAQNKIKSASYNLS LTLQSKRPIPISTTAPPVQTPLPVIPHQK DPALDTNGSLVAPSPPEARASPGTPGTP ELRPTFSPAFSRPSAFSSLAESDPGPPRA SLRAKTSPEGARDLLGPKALPGSSQPRQ YNNPIGLYSAETLREMAQMYQMSLRGK ASGVGLPGGSLPIKDLAVDSASPVYQAV IKSQNKPEDEADEWARRSSNLQSRFRIL AQMTGTETFMQDPDEEALRRSSTPIEHAP VCTSQAATTPLLPASAPPAASPSAASPP LATAAAHTAIASASTTAPASSPADSPRPQ ASSYSPAVAASSAPATHTSYSEGAAPAP KPRVVTASIRPSVYQPVASTYSPSPGA NYSPTPYTPSPAPAYTPSPAPAYTPSPVPT YTPSPAPAYTPSPAPNYPAPSVAYSGBP AEPASRPPWVTDDSFQKFAFGKSTTSIS KQTLPRGGPAYTPAGPQVPLARGTVQR AERFPASSRTPLCGHCNNVIRGPFLVAM GRSWHPPEFTCAYCKTSLADVCFVEEQN NVYCERCYEQFFAPLCAKCNKIMGEV MHALRQTWHITCFVCAACKKPFGNLSL HMEDGAEPYCEKDYINLFSTKCHCHFP VEAGDKVIEALGHTWHDTCFCAVCHV NLAEQPFYSKKDRPLCKKHAHTINL
4972	13023	A	5848	1	537	RTRGGDVKTDLNNIEEFLEETLTPEKYPI LAAKHREYNTEIDIFYKFSAYIKNTKQQ NNAALERGLTKALKKVDDYLNTPLPQE RDAYTCGEDKGTRRKFLADGDELATLAD CNLALPKLHVVKIVGKKYRNYHIPADMT GLWRYLKNAYARDEFTNTCAADSEIEL AYADVAKRLSRS
4973	13024	A	5849	1	654	WEGPTCSMCKVIGIHNACEEAPLHVSFH GQKTELNNCISMLVAANDRVHTITQLE DSRRVTKENSHHVNRKLSQKFDLYAIL DEKKSELLLRISQEKEKLIFIALIQYYQ EQLDKSTKLVETAIQSLDEPGGATFLTA KQLIKSIVEASKGCQLGKTEQGFENMDF FTLDLEHIADALRAIDFGTDEEEEFIEEE DQEEEEESTEGKEEGHQ
4974	13025	A	585	334	696	IKPEMEAGISVTLGLDRNTRVQVGCREL RSTKYISGWASCTSIQPSGRELVCVUGE CLPLPVVPNWIGGGYGTKYWSRRSSQ EWAVCSMDKTRYPEDSQLCQDQGSTRT YKITVSSLPAS
4975	13026	A	5850	141	626	LLWILIAAPPPPPVIRNGARGCSPSTTIP NAWGQEP RP RP RP RP RP RP RDAAGATPS FLPPPLRNHRDSIHHCSGL/CLDDFESK YSFHPVEDFPAPEEYKHFSEDYPSKTNR AARGAPPLPILQVKPGLVPFLIKRMDL LFFSYGPLHSSSELLHDSS
4976	13027	B	5851	23	160	MQHVCAMRQVDIDAYTTCLYASGTTTPV PQLPLLLMALLGLCTLVL*

4977	13028	A	5852	221	1645	APRMRLLAWEFLANWGGARAEPGKF WHIADLHLDPDYKVS KD PFQVCQSAGS QPRGPTQAPWGDYLCDSWALINSSY AMKEIEPEPDFILWTGDDTPHVPADEKLG EAAVLEIVERLTKLIREVFPDTKVYAALG NHDFHPKNQFPAGSNNIYNQIAELWKP WLSNESIALFKKGAFYCEKLPGPSGAGRI VVLNTNLYYTSNALTADMADPGQQFQ WLEDVLT DASKAGDMVYIVGHVPPGFF EKTQNKAWFREGFNEKYLKVVRKHHRV IAGQFFGHHHTDSFRMLYDYAGVSISA MFITPGVTPWRTTLPGVVNGANNPAIRV FEYDRATLSLKDMVTYFMNLSQANAQG TPR\WELEYQLTEAHGVPHATAHSMHT VLGRIVGDKSTLQRYIVVYNSVSYSG VCDEACSMQHVCMARQVDIDATTTCL YASGTTAVPQLPLLMALLGLCTTRAV TCQAHSSW
4978	13029	A	5853	3	126	AYGDSMCAKCVSDRIKHAFFIKEQKIIV KVLKAQAGSQKAK
4979	13030	C	5854	306	386	MLFLKAIWGGSDSWSREAACPLNCNL*
4980	13031	A	5855	709	1199	AGVGVRGTTGRLVVRKFLTIFGNPLFL VAPPKPHSEWSQRLTYRRRPSYNTAL* QK/RRHRSHNQIPPRIVYLLYPRRLGKHP NSACGVCPRQEFEGVRAVRPKVLMRL SKTKKHVSRAVGGSNVCLNVFRDRIKR AFLNEEQKIVVKVLKAQAQSQKAK
4981	13032	A	5856	1	219	HRGYLLFNLFVEVISSEQSVLAPVRR*T CIVANLRGVGDPTSRHCAQGLGFKLLT LYSLLVGSESWGGARA
4982	13033	A	5857	112	312	LCTVCLWALKAGVGPEPERLIYSVPVFV */HAVCAGIADGGSFSSKVRCLEIIFYTG ISIKMFLYIK
4983	13034	C	5858	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
4984	13035	C	5859	61	177	MRIHKRLIDLHSPSEIVKQITSISIEPGVEV EVTIADA*
4985	13036	A	586	258	382	
4986	13037	C	5860	100	153	MSPPKSKGPFPRFPGRF*
4987	13038	C	5861	142	195	MSPPQSKGPFKFPGRF*
4988	13039	A	5862	11	90	
4989	13040	A	5863	3	759	TVPLEVVLLRKVGAAGGARGVIRLLDW FERPDGFLLVLERPEPAQDLDFITERGA LDEPLARRFFAQVLA AVRHC HSCGVVH RDIKDENLLAVLRSGELKLIDFGSGALL MDTVYTDFDGTRVYSPPEWIRYHRYHG RSDTVWSLGVLLYDMVCGDIPFEQDEI LRGRLLFRER\VSPECQQLIRWCLSLRPSE RPSLDQIAAHPWMLGADGGAPEQ/DCDL RLCTLDPDVASTTSSSETLLRSLHLTGS
4990	13041	A	5864	1	422	
4991	13042	A	5865	2	435	ILAEFGSLHLEFLHLELSGNQVFAEKVR NIRKVL RKIEKPFGLYPNFLSPVSGNWV QHHVSVGGGLGDSFYEYLIKSWLMSGKT DMEAKNMYEAE/HTKLGPEAFWFNS GREAVATQLSESYILRPEVVESYMYLW RQTHNTK
4992	13043	A	5866	1	837	
4993	13044	A	5867	1	415	TKLGPEAFWFNSGREAVATQLSESYIL RPEVVESYMYLWRQTHNPIYRIEWGWE VVLAEK YCRTEAGFSGIQDVYSSTPNH DNKQQSFFLAETLKYLYLLFSNEDDLLSL EDWVFNTAEHPLPVNHSDSSGRAGGRH

4994	13045	A	868	1	1187	ESFHLNVSG...LFEVNIRYIGGLLSAFY LTGEEVFRIKAIRLGEKLLPAFNTPTGIPK GVVSFKSGNWGWATAGSSSILAEFGSLH LAEFLHLTELSGNQVFAEKVRNIRKVPQV SFEKPFGLYPNFLSPVSGNWVQHHSFG GLGDSFYEYLIKSWLMSAKTDLEAKNM YYG/APLEAIETYLLNVSPGGLTYIAEWR GGILDHKMGHLACFSGGMIALGAEDAK EEKRAHYRELAVQITKTCYESYARSDTK LGPEAFWFNSGREAVATQLSEE/YTYILR PEVVESYMYLWRQTHNP/SYREWGW VVLAEKYCRTEAGFSGDSKTCYSRHPQ PRTTSRQSFFLAETLNRCLVSACNGPDTG LEARDTAESETVISPAVKGSRGEKAMVR ETD
4995	13046	A	5869	1	1561	MIFVVIILMVVLSPEGGSGLDSSPFLSEA NAERIVQTLCTVRGAALKPYPTGPNFR YSHGVPPHLFAYFPFGSTVSQDNSFISPO LQHIFERVRQSADFMPRWQMLRVLEEL GRDWQAKVASLEEVFAAASIGQVHQG LLRDGTEVAVKIQYPGIAQSIQSDVQNLL AVLKMSAALPAGLFAEQSLQALQELA WECDYRREAACAQNFRLANDPFFRV PAVVKELCTTRVLGMELAGGVPLDQCQ GLSQDLRNQICFQLLTCLRELFEFRFMQ TDPNWANFLYDASSHQVTLLDFGASREF GTEFTDHYIEVVKAAADGDRDCVLQKS RDLKFLTGFETKAFSDAHVEAVMILGEP FATQGPYDFGSGETARRIQDLIPVLLRH RLVSPPEGDLWPWHRKLAGAFLACAH LRDHIACRDHKPGHLPPLGQSPARRSH CRQPPHQRGTGPGWPHDSLHGGFSPQSR PYPVVPLIPSPSALGQSRPLGLPSLAWL SSLAPKTQESLGLGNSP
4996	13047	A	587	1637	1832	VFSTRCGTHPPVCLAEFVKRLRYCEYLG KYFCDCCHSYAESCIPARILMMWDFKK YYVSNSFKTA
4997	13048	A	5870	1	1532	MPQALERADGSWAWVLLATMVTQGL TLGFPTCIGIFFTELQWEFQANSSETSWFP SILTAVLHMAGPLCSILVGRFGCRVTVM LGGVLASLGMVASSFSHNLSQLYFTAGF ITGLGMCFSFQSSITVLGFYFVRRRVLAN ALASMGVSLGITLWPLLSRYLLENLGWR GTFLVFGGIFLHCCICGAIIRPVATSVAPE TKECPPPPETPALGCLAACGRTIQRHLA FDILRHNTGYCVYILGVMWSVLGFPLPQ VFLVPYAMWHSVDEQQAALLISIGFSNI FLRPLAGLMAGRPAFASHRKYLFLSLALL LNGLTNLVCAASGDFWVLVGCLAYSV SMMSGIGALIFQVLMDIVPMDQFPRALGLF TVLDGLAFLISPPLAGLLLDATNNF*DVF QQCPSPFP*SKAPLLKGSFPFPQKKEQ GKQAVAADAALERDLFLEAKDGPQKQR SPÆIMCQSSRQPRPAGVKNHLWGCPAS SRTSHEWLFWPKAVLQAKQTALGWNSP T
4998	13049	A	5871	946	1279	QTELGVRFPTLPFLGSGARGCSGFRVLF VDFRVQPGFRKENLIQGDFFMNRCQSS RQPRPAGVKNHLWGMSCP/ASRDPAMK WLLWPKAVLQAKQTALGWNSPYLECP V
4999	13050	A	5872	3	297	ESCSVTQAGVHW/CNLGSLQSPAPDSSD SPSSVSRVAGITGMCHHAQLIFVFWVETG FHHGEAGLCLRLPKCWDYRCEPPRLHL GLQLNFTYKDRCLA

5000	13051	A	5873	276	880	KADSEQHGE...RYSSSLAKKEVSKAPE DKKKRLEDDKRRKKEDKERKKKDEEKVK ABEESKKKEEEEKKKHQEEERKKQEEQA KRQQEKVEAAAHMKEKEESIQLHQEAWE RHHLKKELCSKNQNAPGSRPENFFSRL DSSLKKNATFVKKLKTIPEQQRDSLSHD FNGLNLSKYIAEAVASIVEAKLKISDVNC AVHLCS
5001	13052	A	5874	2	619	LDLDFNAILIVTSLAPFFQDCMSENALH ELNIELLRNKLYKSYLEAFYKCKNHGD VTAEVMCPILEFEADRRAFIITLNSFGTEL GOEWDRETLYPNLGQLLSEGFALLAQAE DFDQMKNVADHYGVYKPLFEAVGGIGG KTLEDVIFYEREVQMNVLAFNRQFHYGV FYAYVKLKEQEIRNIVWIAECISQRHRTK INSYIPIL
5002	13053	A	5875	1842	2306	GPRRLAAFLTSAGDGVYTRPVVFHDCTC ATFHREDAYRLPFIPTNHHTASPE*VPP HPHLGALQLPGDPSHDIHSIGTPNSNADA PKAGGCKWTQTRSVVPNSALGRKGSTH LPRIYTFTLALPETKLSNCPKPAPIGLEH TSLAWALGTAD
5003	13054	A	5876	301	471	
5004	13055	A	5877	269	394	
5005	13056	A	5878	524	604	
5006	13057	A	5879	187	401	VSCPGSNSPLGSSSASGASSLNFLPSVPV R*SVSGLNLRVPAMARAVTISGDVTKA WVSGFASLRPVKFL
5007	13058	A	588	1	856	MKRSMTLTIFHSERILRNRPKESWE DIEDFGETHDLFLKQYGFENGIPVHDTI ARVVSCISPAKFHECFINWMRDCHSSND KDVIADGKTLRHSYDKSRRRGAIHVISA FSTMHSLVIGQIKTDKKSNEITAPELLN MLDIKGGIITDAMVNCIVKVTGVFAING DQRVAEPDSGALCQVRYPGNHRNDQRY LFRHSDSELLHWMVALDAAVKRVKCL WMSLHKVYSCIPELPQPESAGHSGSQ YA*CNRTRPHGQKPGTSAPGSSGVWRIT SV
5008	13059	A	5880	667	888	AHTVHIRRSASRLPAGPASRLVDLSH*DL GHVP/AGFFLIMNVQOGLADLSTSAHL LGAPLVKGSRPHAWADAW
5009	13060	A	5881	1	163	GLVDESFDVTSPTGPSSADATTSVRAAK KRAPYTLVGSISEPGLGLISWWTSN
5010	13061	A	5882	183	426	
5011	13062	A	5883	1	1152	MHNSDGIEVMRQQKAEIGRVGGLEGIQL GVTEVIVNGARMLESYNCKAELGATGL VNYQISVKCSNQFKLEVYLLNAENKVV DNQAGTQGQLKVLGTNLWWPYLMHEH PAYLYSWEGRPDGAQAVGALTPTGLAV EVWLTAQKSLGP/SDFYTLPVGLRTVAV TESQFLISGKPFYFHGVNKHEDADIQK GFNWPLLKDFNLLCWLGANIFCTSHY PYTEEMLCICYRYGIVVIDECPAPSGHT GPSVPSLLARWQLFNNVSMHHHMWVV EEPVLDRDKNHPAMVMWSLAKEPASFLE SAGYSFKSLTMEQTARVLDLDTGEAVLQ YRSLPRGAHKTGKKRKISSYNVDLTSC QLAKEKCLKGPSSFLQSRQERMNSELDR N
5012	13063	A	5884	401	882	CTINTPPTWTRGRMVIAHTKALDPSQPVT FVTNVTYAADKGALYVDVTPLNYSYSG YRNYGHLAELNQLQLAAIQFENWCKTSQ SHYSERVWSGNAL*GFHQDPPLMFQ*RG PGKVLLEQYHLGLDQKRRKYVVGELIW NFADFMTNQCVSFLVGNENSANL



5013	13064	A	885	197	1184	ETSHQVMD...PVKPALDYFLNRLVNY QISVKCSNQFKLEVCLLNAENKVVDNQ GTQGQLKVLGANLWWPYLMHEHPASL YSWEGRPDGAQAVGALTPGALAVEVR LTAQKSLGP/SDFYTLVPGLRTVPVTE WALYVDVIRVNSYYSWYRNYGHLELIQ LQLPAQFENWCKTSQSHYSERVWSGNA YRVSPGGGNLPHALPCCSQNLALPTFSP GTVVISLALSILGLWAQETGVLFIVVSQD PPLMFSEYQKSLLEQYHLGLDQKRRKY VVGELIWNFADFMTNQCKWQFSAWDN VPVLIFSGCLAHSFGCKNIGNKGGKL V
5014	13065	A	5886	1	657	
5015	13066	A	5887	76	614	VCQYCTARMADFGISAGQFVAVVWDKS SPVEALKGLVDKLQALTGNEGRVSVENI KQLLQCLVPGSTTLHSAEILAEIARILR PGG\CLFLKEPVETAVDNNSKVKTASKL\ CSALTLS\GLVEVKELQREPLTPEEVQSV REHLGHESDNLFFVQITGKKPNFEVGSS MQLKLSITKKS
5016	13067	A	5888	102	1292	ACQYCTARIVDFEISAGQFVA*VWDKSS PVEALKGLVDKLQAF/TPGNEGRVSVEN IK\QLLQSAHKESSF\DIILSGLVPGKAPL WHS*DFWAGNPPGFLRPGWMFFFLKE PVETAVR*Q*AKWKTASKLCSALTLSGL V/EKLKELQREPLTPEEVQSVREHLGHES DNLFFVQITGKKPNFEVGSSRQLKLSITK KSSPSVKPAVDPA*AAKL\WTL SANDMED DSMCIFCGCSLTHRWPLEHVVRNMMI NQKEDRVDFTFTLDSKFPLEACSHFSFSL AETTTVSLIALNTLQDLIDSDELLDPEDL KKPDPASLRAASCGEGKKRKACKNCTC GLAELEKEKSREQMSSQPKSACGNCYL GDAFRASCOPYLGMPAFKPGAEKVLLSD SNLHDA
5017	13068	A	5889	1	747	MGRYVAQAGLELLSSDPSIPSSKTLQEQ NDQSYPTLVPFPEVALHTLLWGEDANN SKVKELQREPLTPEEIQSVREHLGHESDN LLFVQITGKKPNFEVGSSRQLKLSITKKS SPSVKPAVDPA*AAKLWTL SANDMEDDS MDLIDSDELLDPEDLKKPDPASLRAAS CGEGKKRKACKNCTCGLAELEKEKS EQMSSQPKS\CGNCYRGAMPSCASC YLGMPAFKPGAEKVLLSDSNLHDA
5018	13069	A	589	148	333	
5019	13070	A	5890	2	152	YRHMAPHTNFLKK/FFCRDGGLVMLPR LVFNWSPQGILLPQPPKVLGLQV
5020	13071	A	5891	1	581	EKQSCKSCGETFNSITKRRHHCKLCGAVI CGKCSEFKAENSRQSRVCRDCFLTQPV PESTEKTPTADPQPSLLCGPLRLSKSGE WSEVWAAIPMSYPQVLHLQGSQDGR PRTIPLPCKLSVPDPEERLDSGHVWKLQ WAKQSWYLSASSAELQQWLETSTAA HGDTAQ\SPGALQLQVPMGAAAP
5021	13072	A	5894	1	303	PCGARQCGGPPRL/CSSRRTSQELLSK PVPPPAPGGPASRVGRGSVSGALSPAWN GERQHHRGVVLTHTPQSPNHQAGSPNP TRQALATLSVPNKPFI
5022	13073	A	5895	1	284	ATESCSVAQGVQWCDLSSLQAPPPGFT PFSSLSLQGSWDYRSPPPHPANFFVVLVE /MASASQSAGITGVSHRTRPRIAIFNLTEN TNGSVDED
5023	13074	A	5896	3	338	GIHGWSYGGYLSLMMQSRSDIFRVAIA GAPVTLWIFYDTGYTERYMGHDPDQNEQ GYLGSVAMQAEKFPS/EIYPQERHSIRV PESGEHYELHLLHYLQENLGSRIAALKVI
5024	13075	A	5897	1	1200	

5025	13076	A	5898	2	594	NRGSCHRGD LGAFKYKMGQIEIDDQV EG\QYLASRYDFIDLDVRVGIHGWSYGG YLSLMALMQRSDIFRVAIAGAPVTLWIF YDTGYTERYMGHPDQNEQGYLGSVA MQAEKFPSEPNRLLLLHGFLDENVHFAH TSILLSFLVRAGKQYDLQIYPQERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV I
5026	13077	A	5899	74	248	KTLWMVNRTVLAGICSQQLSAGTAT/DV SKHRLQGFIPCRIPS/ASPQTQRKFSLQFH RNC
5027	13078	A	59	582	1303	GACSRAGLWLLGQGLLPRIYQLSEDCV SWSCVHQPGLSPQSLIWARTELSSPDTQS GEDRKTsfvghQPTALGGLGQSIESLMS SEAETEERRCTWMQLSETNRTLFLFGVT KYTAGPYECEIWNSSGSASRSDPVTNLL HGLDALTISSSYTYHTGEVPKLSCLIDT HPLAEHSWLIGGKFQQSAQVFFIPQITKT YRGVYVCFIHNSATGGTNLIKRIIVPDHS LRSALSLEVTGS
5028	13079	A	590	311	576	
5029	13080	A	5900	258	552	CMVFHD/VSGACCCNGETTGKISGGGNQ LGSSPIGGPNPS/SGSSQTSISGDVVEACC SVLSMVCADPVYKVYVAALLLERELPG VFSGKIFNLLSDCLLW
5030	13081	A	5901	1	1660	
5031	13082	A	5902	1	1947	MALRRLSHDVSGALLLANGESTGNSGG SSGSSPSGGATSGSSQTSISGDVVEACCS VLSMVCADPVYKVYVAALQCMLLVTL EDPSSHFTMRMRRLM/AYADEVEIAEAIQ LGVEDTLDGQQDSF\CRHLFPTTTWKPQR TVP/LECTIHLEKTGKGLCATKLSASEDI SERLASISVGPSSSTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLMFPALSTP SSSTPSVPAGTATDVSKHRLQGFIPCRIPS ASPQTQRKFSLQFHRNCPENKDSKLS VFTQSRPLPSSNIHRPKPSRPTPGNTSKQ GDPSKNSMTLDLNSSSKCDDSFGCSSNS S/NCCYTSDETVFTPVEEKCRLDVNTL NSSIEDLLEASMPSSDTTVTFKSEVAVLS PEKAENDDTYKDDVNHQKCKEKEA EEEEALAIAMAMSASQDALPIVPQLQVE NGEDIIIIQQDMTFRHIIPPIQWIYKKESA NLLIDSTGQRLRIADFGAAARLASKGTG AGEFQGQLLGTIAFMAPEVLRGQQYGRS CDVWSVGCAIEMACAKPPWNAEKHSN HLALIFKKLLDFANTACDGDKESEVEDV ETDSGNSPEDLRKEIMIGLQYQAEIPPYL GEYDGNKEDSPQPKMTGVQNAKEVLS T
5032	13083	A	5903	1	4491	PSPEAGGGGGALKASSARAAAAGLLRE AGSGGRERADWRRRQLRKVRSVELDQL PEQPLFLAASPPASSTSPSEPADAAGSG TGFQPVAVPPPHGAASRRGAHLTESVAA PDGASSPAAAEPEKRAPAAEPSAAA PAGREMENKETLKGHLKMDRPEERMI REKLKATCMPAWKHEWLERRNRGPV VVKPIPVKGDGSEMNHAAESPGEVQAS AASPASKGRRSPSPGNSPGRTVKSESPG VRRKRV
5033	13084	A	5904	1940	2062	
5034	13085	A	5905	785	892	
5035	13086	A	5906	1	2745	
5036	13087	A	5907	1	3297	
5037	13088	A	5908	1	2202	
5038	13089	A	5909	1	2868	

5039	13090	A	591	279	602	FFLSEILSVSD...FIISNYYSQVINS LAVY RHRETDGFGVGRDHPGQ/PWQNPISHEK LDNLIIIIIGFLRRYTFNLFCTSCLCVSILT FCRGILVITNKNKLYKTK
5040	13091	A	5910	1	3237	
5041	13092	A	5911	1	2001	
5042	13093	A	5912	1	2982	
5043	13094	A	5913	1169	3269	VHCRFWILALCQMSRLQKSPLLNFNIVLE VLAKAIKQEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLMSNFSKVS YKINVQKSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLFKENYKP LLKEIKEDTNKWKNIPCSWVGGRINLVK MAILPKVIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRALIAKSSLSQKNKTGGITLP DFKLYYKATVTKTSWYWYQNRDIDQW NRTEPSEIMPHIYNILFDKPDKNKQWG KDSL FNKWCWENWLAICRKLKLDPFLT PYTKINSR WIKDLHVRPKTIKLEENLGN TIQDIGMGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQPTWEKI FATYSSDKGLISRIYNELKQIYKKKTNNPI KKWAKDMNRHFSEEDIYA AKKHMKKC SSSLAIREMQIKTTMRYHLTPVRMVIIKK SGNNRCWRGCGEIGTLLHCWWDCKLV QPLWKS VWQFLRDLELEIPFDPAPLLGI YPEDYKPCCYKDTCTRMFIAALFTIAKT WNQPKCPTMIDGIKKMWHIYTM EYYAA IKKDEFMSFAGTWMKLETHLRKLSQGG KTKHRMYSLIGGNLTMRTFGHSAGSHH TPGPIMRCGAGGGIALGEIPNVNDELMG TANQHGT CIPMQQNCTLCCTLKLV
5044	13095	A	5914	2821	5794	
5045	13096	A	5915	457	651	
5046	13097	A	5916	3	637	KGDHVKHYKIRKLDNGGYIITRAQFET LQQLVQHYSERAAAGLCCRLVVPCHKGM PRLTDLSVKTKDVWEIPRESLQLIKRLGN GQFGEVWNGTWNNGNTKVAIKTLKPGT MSPESFLEEAQIMKKLKHDKLVQLYAV VSEPIYIVTEYMNKGSLLDFLKDGEGR ALKLPNLVDMAAQVAAGMAYIERMNYI HRDLRSANILVGNGLICK

5047	13098	A	917	1	2523	MHWKRPWQSYLTLAATDTVQMLNY MSVRQLSYLNFPNTWQFLSWSQMPTQQ AYPCVTHHTHTPPVLGQMACCISNQRRTA ALIGTRPERNVHVNLRQGFVVNAHEP WVNEKVARQEPEDAGRGAVNRAWGFS PRLIHWSEGPQAAALGDRDPRWLPYHH AAALSGSHAAALSLAPSRSSALAVLIALL PAAQLHHHVPRSKACDIAYVGGHRRQV WYGQEDGQQILVVPVLLSTTQQKVSAL WADRLE\RALARS\LAARLAPPSVHPCW V\VTFPSAVAWINAGSLDLKDGEGRA LKLPLNLDMAAQVAAGMAYIERMNYIH RDLRSANILMGNGLICKIADFGLARLIED NEYTARQDPTSRGRHRSSAMNPYGSRA GRGRVESGLTLQMAATQVTQWSAHLV SGEAVAWNTFPTANQDRKELAALSCSCP STLCFMLLGLYPTLDHLQVRQSHCLTVS CAWQGLKPLFLWLAINKAEIECLTLKY WQADCELLASAYQHAWHTCARTQSSNL SIADIESLELVVKTFHQQKIFGLTSYSG MFVGTWNGNTKVAIKTLKPGTMSPEFSL EEAQIMKKLKHDKLVQLYAVVSEPIYI VTEYMNKGGDEGTIREEIGQVKAPRRDN IPKPSAAHAAQLVMWHEVRLTRALCPF WGWLDSWHHFCVELHPTHPLITQKPKG KELTDVVHRSQFSGAQSRVESIWIQRSM TKTPGAKLQKQAYQGVSNPHHHHTGQ QLKAVPHPLMEAPDAIDGYRKILVNFTKI YSAFAVTNSDYEWQPTLVAIGYRCGDP QGTERRTQKPPTEVVTTQLQPQWLLRG HVGLVLLDHPFKEKP
5048	13099	A	5918	74	1002	SNESNAVALSTVERTARRDAPQHGTQPR GLPRSSEHPAQRTAATGKARQRRKTTA SAGAREGRRRLAGTTSIPGF/FSAPVHR HRPQEPRQGPRTPRRAEEKRDQMASHV ECRPLGVFECELCTLTAPYSYVGQKPPN TQSMVLLEESYVMKDPFTSDKDRFLVLG SCCSLCSRLVCVGPVGRMEVEQHGFHSV PSVLRTPESEKSLSICHLTHTKGSCINS QGDGEMGQGRSLRSVAWEYLRLMEELV VQEKLGKEDCKGNSARLGEKESIKEDP QPARFSDGPGLECCSDVTERDDLQGG SS
5049	13100	A	5919	3	401	RSRGTRAAMASHVECRPLGVFECELCTL TAPYSYVGQKPPNTQSMVLLEESYVMK DPFTSDKDRFLVLGSCCSLCSRLVCVGP VG\CSLFYSKRFLPCVRENINAFQEIQR DLEKRAKAPSKRTSPQGSRT
5050	13101	A	592	66	1474	TAPPPSPSPSSLLSPCNGVHHVSTQPSCP GRGKMSKLLNPEEMTSRDYYFDSYAHF GIHEEMLKDEVRTLTYRNSMYHNKHVF KDKVVLGVGSGTGILSMFAAKAGAKK VFGIECSSISDYSEKIIKANHLDNITIFKG KVEEVELPVEKV\DIHSEWMGYCLFYES MLNTVIFARDKWLPKPGGLMFPDRAALY VVAIEDRQYKDFKIHWWENVYGFDMTC IRDVAMKEPLVDIVDPKQVVTNACLIV WTLIRGGPGCAGSPAVPPWSPGNAGSCT APTWARAKVVRLRYEPEVRLEGHATLV TEGTTKERYQGPWKEPGAWLIGPEKVM EKSVLTPNVILDASYCWELAYQKIGEGV VWFIYITGGPKDTQIAVLVQQEVDIYTV KTEELSFTSAFCLQIQRNDYVHALVTYF NIEFTKCHKKMGFSTAMEEPCIFVLSK EKVNNVVVTAQVESVLDEGEAG

5051	13102	A	5920	96	615	NILRNSIITS...YTTLSTTHSIFLFPQISP QMSLIGFFYESEANKGSHFFPGYVSCNL AETT/SLFYIICFLKSPDQGGNAQTMAY NITPLRRA\VECVQDQFGFINYEVDGSK KLFFHMKV/SRDGQCSAWNVPSSLR GPKA\VAAPRP\DR\VSRLKNITLAD\ DAS DPR
5052	13103	A	5921	1497	2853	EMVLVSSSVWVMFVCSSTS VKFWMG SSHIADEVFTVVPDMLSAQRNHAIKK LPKGTVSFHSHTDHRFLGTVEKEATFSNP KTTSPNKGKEKEAEDGIIAYDDCGVKLT AFQAKDVEGSTSPQIGDKVEFSISDKORP GQQVATCVRLGRNSNSKRLLGYVATL KDNFGFIETANHDKEIFFHYSEFGDVDS LELGDMVEYSLSKKGKGNKVS AEKVNKT HSVNGITEEADPTIYSGKVIRPLRSVDPT QTEYQGMIEIVEEGDMKGEVYFFGIVGM ANKGDCLQKGESVKFQLCVLGQNAQTM AYNITPLRRATVECVKDQFGFINYEVDG DSKKLFFHVKKVQDGVIELQA\GDEVEF SVILNPAATGKVQAPC\NVWR\VEGPP RLLQAPRPDRVGSIRLKNITLDDASAPR\ LMVLRQPKGDQITSMGFGAERKIRQA GVID
5053	13104	A	5922	23	206	
5054	13105	A	5923	1	267	ALFRDKLKHMGKSTRKLFELARAFSEK TKMRKSKRKHLKHQSRLGAAASTANL LDDVEGHACDENFRGQASRRAPQGGG RPCREGQ
5055	13106	A	5924	1	267	FFFFFLTDILLF/CLFLRWSFTVTQAGVQ WSDLGSLQPPPPRLKQFSCLSLLSSWDH KCLAPRPANFCSFSKDGVS PCWPGWSQT PHLR
5056	13107	A	5925	1	325	MGTSSGSWPRWSVTAMPPTSMRPCSRR SSSCWPCIPRLPASTAP*SMRPHSGPRMT TRSCCLKT/RSYADGYSPPLNVAQRVVA/ W*GTQEKVMPPGRLAIPQRHRAQQQR
5057	13108	A	5926	366	489	QETTWPDLTKWLPG*RPWMGMSSGF ARWSVTAMPPTSE
5058	13109	A	5927	228	754	
5059	13110	A	5928	1	2709	
5060	13111	B	5929	76	925	XQCFFLSADSRIAELLTELHQLSKQTQEE RSRSEHNLVNIQK THERMQTENKISPY RTKLRGLYTTAKADAEAE CNILRKALD MIAEIKSLLEERRSAAKIAGLYNDSEPPR KTMRRGVLMTLLQQSAMTLPWIGKPG DKPSQPSSPLVLAASKALQVLLGFLLYN LPCLSHRHHPQFLSRLRLPLYSGDCISQE CLNLVFLADVWFGFLPSIYLVFLIILEYEG LLGGAAYVNTFHNIALETSDEHREFAMA ATCISDTLGISLSGLLALPLHDFLCQLS*
5061	13112	A	593	379	475	DLQGVNHLRP\GVQDQPGQHGETLSLLK IQNN/LARRGGGRL/QSQLLRRLRQDNRL NPGGGGCSEPRSRHCTPAWVTEQDPISK QNKRRQANFLIWEDFPYIPQGTKLIFTAQ KLPRCK
5062	13113	A	5930	3	1066	GSWGYQPTGLYAPTRR\GLNVLDWVQA HFPTDDFALAEFDGTNLYEHSDPREGYH QDWN TLINYGRREVSNFLVGNALYWI ERFGIDALRVDAVASMIYRDYSRKEGE WIPNEFGRENLEAIEFLRNTNRILGEQV SGAVTMAEESTDFPGVSRPQDMGGLGF WYKWNLGWMHDTLDYMKLDPVYRQY HHDKLTFGILYNYTENFVLP LSHDEVVH GKKSIDRMPGDAWQKFANLRAYYGW MWAFFGKKLLFMAAKIAGLYNDSEPPR KTMRRGVLMTLLQQSAMTLPWIGKPG DKPPPLCGAIPASGDYVARPGDRLLARL

						KPLNGERA R	PEGGQVTAIATQQGM
5063	13114	A	5931	53	506	FFVFLVEMGFHHVQGAGLELLNSSDLPS SASQSAGIYRCEPLCPAFFFFFSETESRSV AQAVVQWCDLSSLQPPPHFKRFFCLSL LSSWDYRHVPPCLANFCIFVEAGFHHV GQAGHKLLISSDPPASVSQSAGITGMSHC IQPHSPVFS	
5064	13115	A	5932	1	346	SANATTKTSETNHTSRPRLKNVDRSTAQ QLAVTVGNVTVIITDFK\EKTRSS\TSST VTS\SAGS\EQQN\QSSSGVQRAPDKGLPP RSLPTPKGDMS\AVNDEIFPEIATWNCEK L	
5065	13116	A	5933	1	915	MGKEKTHINIVVNGHIDSGKSTSTGHLIY KCGGINKRSIKKFEKKAEMGKGSFKSF VCDSSWYIPGHRDFITNIFTGTSQADCAV LVVAAGVGEFEAALLQDVYKIGIGTV PDGQVETVALKPGVVITFAPVNTTEVK SVKMHHEALSEAFSGDNVGFHVKNVSV KDIHCSNNAAGCKNDPPMEAAGFTAQVI VLNHPGQ/DCHMAHIAACKFAELKEKIDR SSGKKLEDGPKFLKSGDVAIIDMVPGKP MCVESFSDYPPLGCFAACDMRQTVALG VIKAADKKAAGAGKVTKYPQKAQKAK	
5066	13117	A	5934	1	759		
5067	13118	A	5935	30	706	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLIYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAVIFKNQQVTR EHALLAYTLGGKQLIVGVNKM DSTEPY SOKKYEIVNEVSTYIKKIGYNPDTRAFV PISGLNGDHMLEPRANMPWFKGWKSHF	
5068	13119	A	5936	1	706	QSEQPCALPSRESTKLGGIGTVSSAPMET VGSNPGMVVTFAPSPR*QRKV\SAKMH VHEAL\SEALSQEQLGASNVKNVFCQGM FRPWQTVAG*PAKNDPTQWEASWLSLL QVIL\NHPRPK*GAGPMPLYLDCHTA\HI ACK\FAELKEKIDRR\SGKKLEDGPKFLK SGDAAIVDMVPGKPMCYESFSDYPPLG RFAVRDMRQTVAVGVKAVDKKAAGA GKVTKSAQKAQKAK	
5069	13120	A	5937	364	458	VIEHLVSQDGLDFL/NLVICPPRPPKVLGL QA	
5070	13121	A	5938	1	266	EMESRSIARMECSGSISAHCKLRLPGSH HSPASVSRVAGTTGTCHHARLIFLYF/LL ETGFHCVSHDGLHLL/NLVICPPRPPKVL GLQA	
5071	13122	A	5939	1	201	PPTGP/PKLPDPVHLPPFGPPPSAWALPG MSPPSPDPDRNKLRIIRILKNASLSYLQVE VFYPKMP	
5072	13123	A	594	2	307	QAGV**WDLGSLQPLPRLKQFS/CILNP GNLSKEF*STKETQONIFVGHISQTSKF AISLIQHPINMRSGTKTFMMV*GNKQRS KFPIWTFKIFPDMLPS	
5073	13124	A	5940	2	142	ESIQDYKHLCDLSFCQLPPDPPLTVPQ THNARDQWLQDAFHSL	

5074	13125	A	5941	1	432	IHDELSRAARNDGPRHAAGANAGPA AGPRRPVNLDSALAAALRKEMLSA/VGLR QLDMSLLCQLWGLYESIQDYKHLCCDL SFCQDLSSSLHSDSSYPDAGLSDDDEPP DASLPDPPLTPVQTHNARDQWLQDAF HISL
5075	13126	A	5942	3	696	VSMGALGLEGRGGRLQGRGSLLAVAG ATSLVTLLAVPITVLAVLALVPQDQGG/ LGFQKLPEEEPETDLSPGLPAAHLIGAPL KGQGLGWETTKEQAFLTSGTQFSDAEG ALPQDGLYYLYCLVGYRGRAPPGGGDP QGRSVTLRSSLYRAGGAYGPGTPELLE GAETVTPVLDPARRQGYGPLWYTSVGF GGLVQLRRGERVYNISHPDMVDFARG KTFFGAVMVG
5076	13127	A	5943	1	743	MGALGLEGRGGRLQGRGSLLAVAGAT VSLVTLLAVPITVLAVLALVPQDQGGV TETADPGAQAQQLGFQKLPEEEPETDLI PGLPTAHLIGAPLKGHGLGWETTKEQA FLTSGTQVSDAEGALPQDGLYYIYCLV GITGRAPPGGGDPQGRSVTLRSSLYRAG GAYGPGTPELLEGAETATPVLDPARR QGFWPLWYTSVGFGLVQLRRGERVYV NISHPDMVDFARGKTFFGAVMVG
5077	13128	A	5944	1	588	MGFLHVGQAGLKLLTSGHYQKKRMFSE NEENVKRMKTSEQINENICVSLERQTAFL EQVPESFEHLPLPEPPAPLPELVDKTRD TLPPQKPELKVKRVFRPNGLALTWNITKI NPKCAPEEKIYPLFLCHENSNNKLIWKKI GEIKALPLMACTLSQFLASNRYFTVQ SKDIFGRYGPFCDIKSIPGFSENLT
5078	13129	A	5945	3	495	EDTGTFRIYESAGAVKKARGFLEFVEDF IQVSKNLIGKVIKNGKVIQEIVDKSDMV PVRIEGDSENKLPREDKDDRDSRHQRDS RRCPGGRCRSVSGRRGRGGPRGGKSSIS SVPKDPDSNPYSVLDN/TESDQTADTAS KSHHSTNRHTRSRRRTDEDAVL
5079	13130	A	5946	1	2065	MAELTVEVRGSNGAFYKGFIKDVHEDSL TVVFENNWQPERQVPFNEVRLPPPPDIK KEISEGDEVEVYSRANDQEPGWLLAK VRMMKGEFYVIEYAACDATYNEIVTFER LRPVNQKTVKKNFTFFKCTVDVPEDLRE ACANENAHKDFKKA/GACRIFYHPETT QLMILSASEATVKRVNLSMDHLRSIRTK LMLMSRNEEATKLECTQLAAAFHEE FVVREDLMGLAIGTHGSNIQQARKVPGV TAIELDEDTGTFRIYGESADAVKKARGFL EFVEDFIQVPRNLVGKVIKNGKVIQEI DKSGVVVRVRIEGDNENKLPREDGMVFP VFVGTKESIGNVQVLEYYHIAYLKEVEQ LRMERLQIDEQLRQIGMGFRPSSTRGPEK EKGYATDESTVSSVQGSRSYSGRGRGR GPNYTSGYGTNSELNPNSETESERKDELS DWSLAGEDDRDSRHQRDSRRRPGGRGR SVSGGRGRGGPR/GGKSSISSVQYRSNIH NCSTLKRIFLASDMNIVLKDPSNPYSLL DNTESDQTADTDAESHSTNRRRRSR RRTDEDAVLMDGMTESDTASVNGLD DSEKKPQRRNRSSRRRFRGQAE/DRQPAI DFIYKEVEKVSLWQAKDVIEEHGPSEK AINGPTSASGDDISKLQRTPGEEKINTLK EENTQEAAVLNGVS

5080	13131	A	5947	1	1876	MADVTVEVRGSNGAFYKGFIKDVHEDS LTVVFENNWQPERQVPFNEVRLPPPPDI KKEISEGDEVEVYSRANDQEP CGWWLA KVRMMKGEFYVIEYAACDATYNEIVTFE RLRPVNQNKTVKKNITFFKCTVDVPEDL REACANENAHKDFKKA VGACRIFYHPE TTQLMILSASEATVKRVNLSDMHLRSIR TKLMLMSRNEEATKHLECTKQLAAAFH EEFVVREDLMGLAIGTHGSNIQ QARKVP GVTAIELDEDTGTFRIYGESADAVKKAR GFLEFVEDFIQVPRNLVGKVIGKNKQVIQ EIVDKSGVVRVRIEGDNENKLPREDGMV PFVFGTKESIGNVQVLLLEYHIAYLKEVE QLRMERLQIDEQLRQIGRSYSGRGRGR RGPNYTSGYGTNSELNPNSETESERKDEL SDWSLAGEDDRDSRHQRDSRRRP GGRG RSVSGGRGRGGPRGGKSSISSVLKDPDS NPYSLDNTESDQTADTDA\SESHSTN RRRR/SIRRRRTD\EDAVLMDGMTDSDT ASVNENGLVTVA\DYISRAESQSIQRNLP RETLAKNKKEMAKDVIEEHGPSEKAING PTSASGDDISKAT/RVLRGEEKINPLKEE NTQEA AVLNGVS
5081	13132	A	5948	1	392	TESERKDELS DWSLAGEDDRDSRHQRDS WRRPGGRGRSVSGGRGRGGPRGGKSSIS SVLKDQPSNPYSLDNTESDQTADTDA SESHVSTNRRRRSRRRRTDEDAVLM DG MTESDTASVNENGLGKRC D
5082	13133	A	5949	269	973	PAACPSANNICFYGECSYYCSTEHALC GKPDQIEGSLGVAFLPDL SLAKRKTWRN PWRRSYHKRKA EWEVDPDYCEEVKQT PPYDSSHRILDVMDMTIFDFLMGNMDR HHYETFEKFGNETFIHLDN GRGFGKYSH DELSILVPLQCCRIKSTYLRLQLLAKE EYKLSLLMAESLRGDQ EAPVLYQPHLEA LDRRLRVVLKAVWDCVERNGLHSVVD DDL DTEHRAASAR
5083	13134	A	595	374	665	GAQGLSLSPRLECNGAILAHCNLC L PGSS NSPGSAS*VAGTIGMH H HARLMFVFLVE SGFHHVGQAGLELLTSSDPPASASQ SAGI RGISRRAGLDF
5084	13135	A	5950	1	106	
5085	13136	C	5951	146	280	MVFKDQKMRFCFCNQXXXXLMNLXXX XXXVLREKKGGSPPFVFL*
5086	13137	A	5952	2	1929	MAAAA VDSAMEVVPALAEAAPEVAGL SCLVNLPGEVLEYILCCGSLTAADIGRVS STCRLRELQSSGKVWKEQFRVRWPSL MKHYSPTDYVNWLEEKVVRQAGLEA RKIVASF SKRFFSEHVPCNGFSDIENLEGP EIFFEDELVCILNMEGRKALTWKYYAKK ILYYLRQQKILNNLKAFLQPPDDYESYL EGAVYIDQYCNPLSDISLKDIQAQIDSIVE LVCKTLRGINRRHPSLTFIAGESSMIMEIE LQSQVLDAMNYVLYDQLKFKGNRMDY YNALNLYMHQVLI RRTGIPISMSLLYLT ARQLGVPLEPVNFP SHFLRW CQGAEGA TLADIFDYIYIDAFGKGKQLTGKECEYLIG QHVTAALYGAVNVKKVLQRMVGNLL SLGKREGIDQSYQLLRDSL DLYLA MY P DQVQLLLLQARVYFHLGAWPEKSFCLV LKVLDLQHIQTLDPGQHGA VGYLVQ HTLEHIL/ERKKEEVGV EVKLARSDEKHR DVCYSNGLHYGRHKRYGL/N*LC*FYGW GPHLAWMGHELD SRNMNVHSLPHGHH QPFYNVLVEDGSCRYAAQENLEYNAEP QEISHPDVGRVYSQRFT RTHYIPNAEL EIRYPEDLEFVYETVQNIYKCKRKENIE



5087	13138	A	5953	3	364	FFSPETESHCHAGVQWQMLGSLQSP PFSCSLPSSYDYRHAPLHRANFLLFLR DGVSACWPATAPGLLLIFFGRAPWLM IPAPREAEAGGSLEARSSRPASLFQV SFFS PFFHMF
5088	13139	A	5954	2	114	FFFFGRDK/SLTMLPRLVSNCAQ GILPS WPPEVLRLQA
5089	13140	A	5955	3	139	FFFFFETETHTVARAGVQWCHLAS LQPL PAGSSHSPAAASHVAS
5090	13141	A	5956	274	363	
5091	13142	A	5957	7	1047	
5092	13143	A	5958	7	960	
5093	13144	A	5959	2973	3400	GIIFMCPDMYTSKTFKACLFALFF FIYF IYFFLVGIMEEYIKMCNIPQVGIF SKYLP *SLSV*FFFETESCFVTQAGVLW CYLSSL QPPPPGFKRFSCLSLSSWDYRHL PPCPA NFC/IFSRDGVSPCWPG*SQTPDL R
5094	13145	A	596	1	685	EIKYHSLPRLECRGEISAH*NLCL PGSSDS PATAS*VAGITGMRHYAQLIFLFL VET*F HHVGQGWSRTPDSNDPPASASQGA GDY RRD
5095	13146	A	5960	6459	7074	LEARAGSYRPDLPGSHYLLAFFFFF RRS LTLFSQAGVK\WCDLGSSQPPSPG FKQF SCLSFLSSWDYRHAPPYRG*SFFF FFFFVF LVETGVSPCWARL\VLNARPQVH PPRAS QSA\GTTAVSHHAQPLCLFIYLFY FY/CIF LRLSFALGPQARVQWHNLSSLQPP PPGF KQFSCLSLPSSWDYRWPPHPANFV LL RYLR
5096	13147	A	5961	1	361	VCYPDRDCGESLVAASYRQVPVH QCGW FHPLKPA\SHPDTECVFRKTPKIP QKHS GSPR\PPSPSYRGRFLFRFHPPQ HGAQGP SPPPLGRKHRPSHTGSAALRACPP PGAA GLHSWGQL
5097	13148	B	5962	27	288	MRKVHVSTVTPNYAGGEPKFR TAYTR QQVLELEKEFHYNRYLTRRRRVE IAHAL CLSERQIKIWFQNRMRKWKKDHK LPNT KIRSGX*
5098	13149	A	5963	1	825	MSSFLINSNYVDPKFPPEEYSQSD YLP DHSPGYAGGQRRESSFQPEAGFGR RAA CTVQRYAACRDGPPPPPPPPPPPP PGL SPRAPAPPAGALLPEPGRCEAVSS SPP PPCAQNPLHPSPSHSACEPVVYPW MR KVHVSTGRYSLSEVGSWGGVEEVE EEK EEESNPNYAGGEPKRSRTAYTRQQ VLEL EKEFHYNRYLTRRRRVEIAHALCL SERQI KIWFQNRMRKWKK\DHK\LPNTKI HSGG AAGSAGGPPGRPNGGPRAL
5099	13150	A	5964	656	1164	
5100	13151	A	5965	1	4033	MWRRKHPRTSGGTRGVLSGNRGVE YGS GRGHLGTFEGRWRKLPKMPEAVGT DPS TSRKMAELEEVTLDGKPLQALRVTD LK AALEQRLAKSGQKSALVKRLKGAL ML ENLQKHSTPHAAFQPN SQIGEEM SQNSFI KQYLEKQQELLRQRLEREAREAAE LEEA SAESEDEMIHPEGVASLLPPDFQSS LERP ELELSRHSRKSSEESSEKGDSDDE KPRK GERRSSRVQARA AKLSEGSQPAE EEED QETP
5101	13152	A	5966	3	5979	KSSSISEEKGDSDDEKPRKGERRSS RVQ ARA AKLSEGSQPAE EEDQETPSR NLRV RADRNLT EEEEEEEEEEEEDDEE EGD DEGQKSREAPILKEFKEEGEEIPRV KPEE MMDERPKTRSQEQEVLERGGFRTR SQEE ARKSHLARQQQEKEMKTTSPL EEE EREI KSSQGLKEKSKSPSPRLTEDRKKA SLV ALPEQTASEEETPPPLLTKEASSPP HPQL HSEEEIEPMEGPAPAVLIQLSPNTDA

5102	13153	A	5967	16	208	LLPYSTNPPASRLAVIAGVHHHTQLMF FLVETGSHCVTQSGCLKPASSNPPTGLT MLGLQV
5103	13154	A	5968	1	932	MKFLLDILLPLLVCSLESFVKLFIPKR RKSVTGEIVLITGAGHGIGRLTAYEFAKL KSKLVLDINKHGLEETAACKCKGLGAK VHTFVVDSCNREDIYSSAKKVKAIGDV SILVNNAGVVYTSDFATQDPQIEKTFE VNVLAHFWTTKAFLPAMTKNNHGHIVT VASAAGHVSVPFLAYCSSKFAAVGFHK TLTDELAALQITGVISLCLCPNFVNTGFI KNPSTSLGPTSSCSRVPKLVPEEVVNR MHGILTEQKMIFIPSSIAFLTTLERILPERF LAVLKRKISVKFEAVIGYKMKPH
5104	13155	A	5969	1	1202	IHTGENPYECHECGKAFRSKYQLISHQRT HAGEKPYECTDCGKAFGLKSQLIHQRT HTGEKPFECSECQKAFNTKSNLIVHQRT HTGEKPYSCNECGKAFTFKSQLIVHKGV HTGVKPYGCSQCAKTFSLKSQIVHQRS HTGVKPYGCSECGKAFRSKSYLIHMRT HTGEKPHCECGKSFSFNSQLIVHQRIH TGENPYECSECGKAFNRKDQLISHQRT AGEKPYGCSECGKAFSSKSYLIHMRT GEKPYECNECGKAFIWKSLIVHERTHA GVNPYKCSQCEKSFSGEITPSLLHQRMH TTEKPYECSECGKAFIRNSQLIVHQRT GEKPYGCNECGKTFQSILSAHQRTHT GEKPCCKTECGKAFCWKSQLIMHQRT VDDKH
5105	13156	A	597	3	198	GIPGSSFCGLCGDVPKPV*RADGSC*DG VAPRLLRPRGFRGGRCGPVLDLAGQRG AESGCRG
5106	13157	A	5970	153	571	LLVFYLPPTSLKGGRLQDMSLLCQLYS LYESIQEYKGACQAASSPNWYALENGF FDEEEYFPEQNSLHRRDRGPPRDLSP VAPSPAATGFWSRGSWEGDCWEAL PTGHAIVICCFCKKAPPLWTVLGHRG
5107	13158	B	5971	223	347	XNYIRVFGGGTKLTVLGQPKAAPSVTLF PPSSEELQANKATL*
5108	13159	A	5972	2	283	LHSRLDGAAILCPGHCHGSRVEVTYETH QCGLVGLKLLRGGREQSDRGSSGLT*D GQLGPPAEQRTTQAVIPCCAVIMSLILRL EPTDGGGG
5109	13160	A	5973	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGSSGLT
5110	13161	A	5974	2	385	APFMRDPAAVASVGF/PLLGRQAQVAAG RILVVALFGGFGGLHSHLDGAAICLPGH CHGSRVEVTYETHQCGLVGLKLLRGGW EQSDRGSSGLTDEGQVGASSEDISIISWP KHAVIVSLILRLEPGDE
5111	13162	A	5975	3	539	RRQAQITAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGLV GLKLLRGGREQSDRGSSGLT*DGQLGP SAEHLPLITTTIPLHTVIVGLIPGLDPGDQ GGRVPRAGAENRSGIPAGRSAS**MTNT GARGFCWYHCTLLSPIFSPQVILAVFP GATDTEGG
5112	13163	A	5976	1	351	RGGWEQSDRGSSGLTDEGQLGASSEH RTMQAVIPCCTVIISLILRLESTDGGGG*G ARLGARESVSDP*GPLIITIDEEFGGPSWD LLVPVYNINSDVGVASRTRDGDPLPGGP RR
5113	13164	B	5977	78	448	XQRTVISCTGSSSTIGAGYDVHWYQQLP GTAPKLLIYGNSNRPSGVPDRFSGSKSGT SASLAITGLQAEDEADYYCQSYDSSLG YWVFGGGTKLTVLGQPKAAPSVTLFPPS SEELQANKATL*

5114	13165	A	978	1	393	RVLVVALF...GGLHSRLDGAACLPGH CHGSRVEVTYETHQCGLVGLKLLRGGR EQNDRGGSGLT*DGQLGPSAEHPSGTT TSSI*TAHISLGLSLEPINCQGGRGGLGSI EIYNKPLRADYRPHKS
5115	13166	A	5979	3	389	LPGGPGTMVAFGGGLPTVQGRVQGALAP VLVGACLEGCGGLHSRLDGAACLPGH HGSRVETVYETHQCGLVGLKLLRGGR QSDRGGSGLDLGRSAWSLRRIPHDKDH WCLLIDSNSQPRLLPGRH
5116	13167	B	598	188	246	MAWLPGSCARVAFFAGAAAR*
5117	13168	A	5980	1	908	AGHRGRRAFRGKGQGRGSRGAGFSG WDKRWVVKGVSVRAEIEGVTGPARD NSIQAGGREVGGYALRRRGRNERAEG VFSDQTSPIRASFTRRHPGRLCASPSG HWVPGFPHPTLRTOGRPPIMCEIRKE QDFSLTMRIFIEKGWMTWDGGRDPSP NLQLQAPVGGVRVGGKAFRCRGHCLL GAPFMRDPAVASVGLPLLGRQAQVAA GRILVVALFGGFGGLQSHLDRAAICLP \CTGPRVKIHFKNHVGVLGLKLLRGGW EQSDRGGSGLGTEDGQLGASSEHSTQ
5118	13169	C	5981	60	392	
5119	13170	C	5982	176	385	
5120	13171	A	5983	1876	2540	FLQLGSWLGRGSCQVSRGPGQPRSDNLL VEPKDLKGNLTHFTTLGGFHLLYMMIWI HPPINLCSGSNFFFLFFFFSFLRLGLALL PQAGVEWRDLGLLQPLPRLEQSCPS GSSWDRRFMPWPANFCM/FL*RWGLT VLPRLVSNWAQ/CDPPVSASQAGITIV SHHVQLEGSTSFTFCKHICFTPPFPSL ISHFYIDLLFYNKTLTPKKKKK
5121	13172	A	5984	1	393	
5122	13173	A	5985	1	1427	MRERFRNLDEEVEKYRAVYNKLRYEHT FLKSEFEHQKEEYARILDEGKIKYESEIA RLEEDKEELRNQVLNVDLTKDSKRVEQL AREKVYLCQKLKGLEAEVAELKAEN SEAQVENAQRIQVRQLAEMQATVRSLE AEKQSANLRAERLEK/DSLQSSSEQNTFL INKLHKAEREINTLSSKV KELKHSNKLEI TDIKLETARAKSELDRENRNKHSELD\YL HLDNEILKAAVEHHKVLLVKKDRELIRK VQAAKEEGYQKL VVLQDEKLELENRLA DLEKMKVEHDVWRQSEKDQYEEKLRAS QMAEEITRKELQSVRLKLQQIVTIENAE KEKNNSDLKQQISSLQIQVTS LAQSEND LLNSNQMLKEMVERLKQECRNFRSQAE KAQLEAEKTLEEKQIQWLEEKHKLHERI TDREEKYNQAKEKLQRAAIAQKKRKS HENKLRLEKQEVLEAKKEELETENQ VLK

5123	13174	A	86	2	1831	NYKTLIIICALWTVLLWNKCSSDKAI QFPRRSSSGFRVDGFEKRAAASESNMYM NHVAKQQSEEAFFQEQQKAPPVVGGFN SNVGSKVLGLKYEEIDCLINDEHTIKGRR EGNEVFLPFTWVEKYFDVYGKVQYDYG YDRFEFSHSYSKVYAQRAPYHPDGVFM SFEGYNVEVRDRVKCSISGVEGVPLSTQW GPQGYFYPIQIAQYGLSHYSKNLTEKPPH IEVYETAEDRDKNKPNDWTVPKGCFMA NVADKSRFTNVKQFIAPETSEGVSLQLG NTKDFIISFDLKFLTNGSVSVVLETTEKN QLFTIHYVSNAQLIAFKERDIYYGIGPRTS WSTVTRDLVTDLRKGVGLSNTKAVKPT KIMPKKVRLIAKGKGLDNITISTTAHM AAFFAASDWLVRNQDEKGGWPIMVTRK LGEGFKSLEPGWYSAMAQQAISTLVR AYLLTKDHIFLNSALRATAPYKFLSEQH GVKAVFMNKHWDWYEEYPTTPSSFVLNG FMYSLIGLYDLKETAGEKLGKEARSLYE RGMESLKAMLPLYDTGSRTIYDLRHF LGIAPNLRWDYHTTHINQLQLSTIDES PIFKEFVKRWKSYLKGSRAKH
5124	13175	A	5987	34	332	LLRQGLALLPRLECSGTISAYCNLCLPGS NHPPVSVSQVAGTTGVHHAQLIFVFW VETGFCHVAQYGLEFLGSSNPALTSPSA GITGVSHCIWAQVF
5125	13176	A	5988	3	395	PAGGPAAGRAAARAGAMAKLLSCVLGP RLYKIYRERDSEAPASVPETPTAVTAPH SSS/WGYLSLSKVVPFSHYAGTLLLLLAG VACLRSIGRWTPNPQYRQFITILEATHRNQ SSENKRQLANYNDFRSW
5126	13177	A	5989	3	414	
5127	13178	A	599	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5128	13179	A	5990	3	784	LIALRTCTESPGTTHASADAWKLLSC VLCPRLYKIYRERDSEGAPISETETPTAD TAPHSSSWDTYYQPRALEKHADSILALA SIFWPISYYSCFAFFYLKGYLSLSKV VPFSHYAGTLLLLLAGVACLRIIGRW NPQYRQFITILEATHREPSLQKTKRQLAN YNDFRSWPVDFHWEEPSSRKESRGGPS RRGVALLRPEPLHRGTADTLNRVKKLP CQITSYLVAHTLWRRMLYPGSVYLLQK ALMPVL
5129	13180	A	5991	461	660	
5130	13181	A	5992	1	1774	MSSEEVSWSWFCGLRGNEFFCEVDED YIQDKFNLTGLNEQVPHYRQALDMILDL EPGIGRWTPNPQYRQFITILEATHRNQSS NKRQLVYYFFDFRSWPVDFHWEEPSSR KESRGGPSRRGVALLRPEPLHRGTADTL LNRVKKLPCQITSYLVAHTLGRRMLYPG SVYLLQKALMPVLVQQAARLVEKCNGL RRAKLALACDGNEIDTMFVDRRGTAEPQ GQKLVICCEGNAGFYEGCVSTPLEAGY SVLGWNHPGFAGSTGVPPQNEANAMD VVDQFAIHRLFFHPQDIITYALAIGGFTAT WAAMSYPDVSAMILDASFDDLVLALK VMPDSWRGLVTRTVRQHLNLNNAEQLC RYQGPVLLIRKTQDGNLTPTVPKDICSN RANCLLVKALQHRYPGVMAEEGLLVA RQWLEASSQLEEASIYSRWEVEEDWCL SVLRASYQAEHGADFPWSVGEDMSAID GRRQAGPLFPGLGKASCHNFGGPTHCT PLPSPQNFPRCPWHPLGTQLGLIMEEWG ERRHEERPFLFVILLCFMFAVYKFCGK

						GGPFPLTTVRRFPSFMWLYLTFSNIH PALHEMG
5131	13182	A	5993	3	180	
5132	13183	A	5994	1	1015	MIAPLGLGVLARDQYRQAALADWDLKL DGGRRQSTGAVSLKEIIGLEGVELGADGK TVSYTQFLPTNAFGARRNTIDSTSSFSQ FRNLSHRSLSIGRASGTQGS�DTGSDLDG FMDYDPNLLDDPQWPCGKHKRVLIFFSY MLCTQLPCSQAFKCSTVHSSDLSLHERN EHPCKKHNCLLQEGHSPLQAPGFRRALV VAPMQVFPLLMALGVTTVIDYVKPSDL KKDMNKFFKEKFPPIKLTNLKIRTLKRE\ MRKLAQEDCALEEPTVPMAFVYFEKLA LKGLNKNQNRKLCAGACVLVSSQYKFG SDLKKHEVKHLIDKLEEKFRLNRARTGF AF
5133	13184	A	5995	48	327	EELEALRR\QRLAELQAKHGDPGDA\AQ QEAKHREAEMRNSILAQVLDQSARAR\V SEQGLIEILKKVSQTEKTTTVKFNRRKV MDSDEDDDY
5134	13185	A	5996	52	281	VSKLKHLLKPEKTKAVENYLIQMARYG QLSEKVSLSLEELYCYLLYQNMASKGQ LHLHWITEFLTLRRNCWRE
5135	13186	A	5997	1	280	GNPLFFLELHWNPSLRIQACDRIYRVGQ QKIDVSIPIRFVCGGTVEESILHFQEKIDL AKQFLSGSGESVTKLTLSDLRVLIGIYPP VDRVSE
5136	13187	A	5998	36	512	LFVLLQVNVSGNELCLMTSHLESTRGHA AERMNQLKMVLKKMQEAPESATVIFAG DTNLRDREVTRCGGLPNNIVDVWEFLG KPKHCQYTWDQTTELLILGITAACKLR FDRIFR\AAAEEGHIIPRSLDLLGLEKLD CGRFPSDHWGLLCNLADIIL
5137	13188	C	5999	205	519	MGKEGVHGGLINKKCYEMAFPLQAFPV LTSSVSPSPPLPTALHPFXXHTHTNHFIF WAITPYPLLLPKPHGLGARAGWTDTSFY PYPSRVWLENFCFLGFFFE*
5138	13189	A	6	144	398	
5139	13190	A	60	713	811	IPGRPWR\*A*PVTLR\QTQATCGG*MV RASL
5140	13191	A	600	3	496	HSLFGTSEVINKLRSPDAMGHFTEEDKG TITSLWGVNVEDAGGETLGRLLVVPY WTQRRFFDSFGNLSSASAIMGNPKVKAH G\KKVLTSLGDAIKHLG*SQGAPFAQA*S ELH\CDKAALLDPEELSSFLGEMLLGDPF LGNIPIFGQKNFTPEGCKAFLGQKDG

5141	13192	A	6000	3	939	FLKLHLQSSVLLASGGGREGWAGSGV RGLLHSERSRGPDSACPELSASPRPASR GSSSPVRGRQQRPRAAPVAAPWPCWN AYIDNLMADGTICVTGAIVRYQDSEPPV WAAVPGKTFVNITPA*GGLSLVGKDR SSFLR*MGLTLWGGQKICSVIRGLTCLQD GEF/SAMDLRYQEPPGGAPTFCQSLFTKT DKDG*VLADGAKEGVHGGTLNKKCYE MASHLSGFPSTDHRLSLPLHRSPTAFAPL SSPYTHHPFLFFGPLPHTPYCCQNHMGL GGQGLMGQTPSPTHIPSRVWYGKLLFFG VFFFSE
5142	13193	A	6001	172	407	
5143	13194	A	6002	1	185	ESSCLSLPSSWDHRHGRPWLADFSVEFF/C YRNSLTMLPRLGLNSWPQAILPPWPPKV LGLQA
5144	13195	A	6003	1	618	
5145	13196	A	6004	1	478	HPVRFFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSAVADKLDNSRSILKRRY YRQHCTLELGSYIKDLSVHSDLSSIVIL DNSPGAYRSHPDNAIPIKSWFSDPSDTA LLNLLPMLDALRFTADVRSVLSRNLHQ HRPLTGTGGTLGEPNQCL
5146	13197	A	6005	2	833	WNSAELGRGGPGAGGAGVIGMMRTOC LLGLRTFVAFAAKLWSFFIYLLRRQIRTV IQYQTVRYDILPLSPVSRNRLAQVKRIL VLDLDETLIHSHDGVLRTVRPGTPPDF ILKVVIDKHPVRFFVHKRPHVDFLEVV SQWYELVVFTASMEIYGSAVGRNLWD NSRSIL*GGRYRQPALELGSIKGPL CWFHSDLSISIVILDNSPGAYRSHPGYGG RDNAIPIKSWSVTPSDTALLNLLPMLD ALRFTADVRSVLSRNLHQHRLW
5147	13198	A	6006	2	258	EAESRSVPRLCSGPILAGCMLHLPGSC HFPASASQVAGTTTHARHHTQLIFAFLVE NGLC*PGWSRSPDLVIRLPWPPKVLGLQ A
5148	13199	A	6007	60	429	IRGOYMWGPVSSSLFCSMGYLVFGFFSFI FFFCDEVLLLSTRLECNGTISGHCNLCPL GSSHSPVSASRVAGTTGARNKARLIFYF FLVEMGFHHISQDGLDLL/NLVIRPPWPP KVLGLQA
5149	13200	A	6008	1	1047	SCGWTFTSMSKLLRHRRKHDDRRFTC PVEGCGKSFTRAEHLKGHSITHLCTKPFE CPVERCCARVSARSSLYHKKHVQDVG APKSRCPVSTCNRLFTSKHSMKAHMVR QHSRRQDLLPQLEAPSSLTSSSELSSPGQ RELTNMDLAALFSDTPANASGSAGGSDE ALNSGILTIDVTSVSSSLGGNLPANNSSL GPMEPLVLVAHSDIPPSLADSPVLGTAA TVLQQGSFSVDDVQTVSAGALGCLVAL PMKNLSDDPLALTNSNLAHHITPTSSS TPRENASVPELLAPIKVEPDSPSRPGAVG QQEGSHGLPQSTLPSPAEQHGAAQDTLS AGTGNFYLV
5150	13201	A	6009	66	423	MEVACRQSTSWQPMDLASSSDFRPRMQ NPTTNRHSQANSCLQGDSPRRMSASKR YFEKTNACRPSSFTKHSRESSGSPGVSRS CTGTRF*NVTQKPYFTSSKHKRTGKVKV RISVV
5151	13202	A	601	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSSASAIMGN PKVKAHGKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLVT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH

5152	13203	A	6010	44	283	FSCLILHDAFCLILHDAFPCSLCSVTGSL VLSRVPLRGTHQKSAIATSTKIALSNM/KI LKHHTDAYFKKQQLFFDVSKK
5153	13204	C	6011	107	118	MAV*
5154	13205	A	6012	197	683	SLEVPLGFLLYLSFILLYSCFPLSNRVLLC HRDPFLSFLDLFLLPAFSPDYVQFLFL*CA PQFSIRH*TL*MLHCKCLDFFFFFFFETR FHSPSLRLECSGMISAYCSPTSWSVTQVRG TTGTCHHAWLVFIFSVETGFHHVAQPD QLLPAPRPKVLRLQV
5155	13206	A	6013	1	415	LWREGPKWN/AARLNESTTFVSVSRPTIA CGMVGTIVRFYIKSPHLFKYAADPRDK HWLAEQHHMRATGGKMAVLLIEEDIP GPCGPMITEDALDLKLEGIEIPLSLPSW MVEKMRKYMETLRTENEHRAVEAPQ T
5156	13207	A	6014	1	1256	
5157	13208	A	6015	2	1594	GRPARGAPQRGQTPEAGADKRATAGLC GGGGGRRRRHRASGRRAGRGEPAGLKS QGQRAVPKRAVARGGRQVYSAIALLEP AGSEIADDLSILYSNRAACYLKEGNCSG CIQDCNRALELHPFSMKPLLRRAMAYET LEQYGKAYVDYKTVLQIDCGLQLANDS VNRLSRILMELDGPWNREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQQGI TDEKTFKALKEEGNQCVDKNYKDALS KYSECLKINNKECAIYTNRALCYLKLCQ FEEAKQDCDQALQADGNVKA FYRRAL AHKGLKNYQKSLIDLNKVILLDPSIIEAK MELEEVTRLLNLKDKTAPFNKEKERRKI EIQEVNEGKEEPGRPAGEVSTGCLASEK GGKSSRSPEDPEKLPIAKPNNA YEFQII NALSTRKDKEACAHLLAITAPKDLPMFL SNKLEGD TFLLLIQSLKNNLIEKDPSLVY QHLLYLSKAERFKMMLTLISKGQKELIE QLFEDLSDTPNNHFTLEDIQALKRQYEL
5158	13209	A	6016	1	449	MAEGEITFTALTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHI QLQLSAESVGEVYIKSTETGQYLAMDT DGLLYGSQTPNEECLFLERLEENHYNTY ISKKHAENWVFGVGLKGPRTYHQQKAIL FLPLPVSSD
5159	13210	A	6017	1	153	
5160	13211	A	6018	1	528	
5161	13212	A	6019	223	513	QRGFLPEDPSGWHSGWDKGQERPAHRH QMRNVCSWKGWRRITITPIYPRSMQRR GLLASRRMGAANAVLGLTMARKQSC*A MAEGEITFTALTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQH QTPNEECLFLERLEENHYNTYISKKHAE KNWVFGVGLKKGSCCKRGPRTHYHQQKAIL FLPLPVSYNSRDLFWEG
5162	13213	A	602	38	538	APSPDAMGHFTEEDKATITSLWGKVVN EDAGGETLGRLLVVYPWTQRFDSFGN LSSASAIMGNPKVKAHGKVLTS LGDA IKHLDDLKGTFAQADVNTCDKLHVD PENFKLLGNVLVTVLGNPIFGKEFTPEG CKASWAERWVTWSWPVPCSSRIPLKPL CP
5163	13214	A	6020	1	812	MAEGEITFTALTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHS GLNYSWTMHQRLQALRTNDHFAGAHA VPSDAQVMGMDAGVYTSSKTIAAFVIVL LYHSQVHLSVSLIMQKPQVQGPWLALS QQLQEDVGLENWNEVTLESWTPSQLHK PLSLVQLQLSAESVGEVYIKSTETGQYL AMDTDGLLYGSQTPNEECLFLGLEE NHYNTYISKKHAEKNWVFGVGLKKGSC

						KRGPRTHYAILFLPLPVSSD
5164	13215	A	6021	1	1471	MESMFSSPAEALQRETGVPGLLTLPD LDGVYELERVAGFVRDLGCERVALQFP DQLLGDAVAVAAARLEETGSKMFLGDT AYGCCVDVLGAEQAGAQAALHFGPAC LSPPARPLPVAFVLSSTFCGLGTLCDLW GPKPRPQSACGAA\GEPACAHAEALAT LLRPRYLDLLVSSPAFPQPVGSLSPPEMP LERFGRRFPLAPGRRLEEGAFYVGGSK ASDPDLDLDPDLRLLLGWAPGQPFSSCCP DTGKTQDEGARAGGLRARRRYLVERAR DARVVGLLAGTLGVAQHREALAHLRNL TQAAGKRSYVLALGRPTAKLANFPEVD VFVLLACPLGALAPQLSGRLFQIPILAPCE LEAACNPAWPPGLAPHLTHYADLLPGS PFHVALPPESELWETPDVSLITGDLRPPP AWKSSNDHGSLALTPRPQLELAESSPA SFLSSRSWQGLEPRLGQTPVTEAVSGRR GIAIAYEDEGSG
5165	13216	A	6022	1	343	PTRPPTRPRTHGQECPLDPVDFLLFRTR AGDPLRRVSSVFKNLIFFSIKPQPPCL AFHPRDPPGSKRPLFWDPFKGPILAPI LSLTQIFFRWSCFFPKSRIAQGWALS
5166	13217	A	6023	3	919	
5167	13218	A	6024	3	275	GLRLGKIGRD\CLIGYGASMLLERLMIS SDAFEVDVCGQCGLGYSGWCHYCKSS CHVSSLNIPYACKLLFQELQSMNIPLK LSKYNE
5168	13219	A	6025	455	679	
5169	13220	A	6026	1	2064	MTASIRRYHTCATDGEPSVVLVGGDGD LTLLVAALGLDLGLPFMLLPPLMEWMR VAITYAEHRRSLTVDSGDIRQAARLLP/ GPEHCFSSFR\RLDARAATEKFNQDLGFR MLNCGRTDLINQAEALGPDGVNTMDD QGMTPLMYACAAGDEAMVQMLIDAGA NLDIQVPSNSPRHPSIHPDSRHWTSLTFA VLHGHSVVQLLLDAGAHVEGSAVNGG EDSYAETPLQLASAAGNYELVSLLSRG ADPLLSMLEAHGMGSSLHEDMNCFSHS AAHGHRGIWGLVTLGPLACLEEDHETP SPRPVQSSPSGQEGTGGQLRNVLKLLT QPQAKADVLSLEEILAEGVESDASSQ GSGSEGPVRLSRTRTKALQEAMYSAEH GYVDITMELRALGVPWKLHIWIESLRTS FSQSRYSVVQSLLRDFSSIREEEYNEELV TEGLQLMFDILKTSKNDSVIQQLATIFTH CYGSSPIPSIPIRKTLPARLDPHFLNNKE MSDVTFLVEGKLFYAHKVLLVTASNRF KTLMTNKSEQDGDSSKTIEISDMKYHIFQ MMMQYLYYGGTESMEIPTTDILELLSAA SLFQLDALQRHCEILCSQTLSESAVNT YKYAKIHNAPELALFCEGFFLKHMKALL EQMPSGSSSTAAAKCRAWIHCRCTRT PWQSACTLSTSPPGSAA
5170	13221	A	6027	2	144	LFYEMESCSIAQAGVQWLSLGLLQAPPV GSCHSPASASCELMFFKI
5171	13222	A	6028	163	465	
5172	13223	A	6029	1	1614	
5173	13224	C	603	83	349	
5174	13225	A	6030	163	1917	



5175	13226	A	6031	133	424	PFLCDLFHLVPSDSFLMVIDFVNGTFM ISFINRILLGQNRDGVFSTDDYFHHQDG YRYNVNQLGDAHDWNQNRGLFWAKCP RIEYLARSQKT
5176	13227	A	6032	3	270	FKMESGSAVAKLECRGTISAHCNLRPPGS SDPPASASQIAATTGVHHNRLIPAFLVE TGFCFVDQAGLELLT/LVIHPPRPPKVLG LQA
5177	13228	A	6033	407	720	RHNSSNFFFFFFFETESRSIAQACMQWC YLSSLQSLPPGFKRFSCSLPSSWDDRC PPCLANFVFLVETGFCHVGQAGLELLIS GDPPASASQSTGITGMI
5178	13229	A	6034	1	135	KEAPGLKKENNCFVCAICQINMEGKTLC SKKDRPICKSHAFFHV
5179	13230	C	6035	96	410	
5180	13231	C	6036	108	422	
5181	13232	A	6037	2	195	CLPRFMPILPASTSQVAGNTGAHHHARLI FVFLVEVGFFHHVGQAGLL/ISLPQMIHPP RPPKVLGL
5182	13233	A	6038	251	377	LGLAQITLDNPLLGGEGLECAPTGPLEPP LAYTVNLILKSKARRTEPQKQYFSSHAK NGG*REGVAA*APTGPLEPLAYTVNLIL KSKA
5183	13234	A	6039	175	393	ARPTFRLYLSLPVSQAGQQREAER/HPRL VPTGPTHREPSVRYDNLRSRIVDLSVAP RGEESRRCCQLVVHL
5184	13235	A	604	295	448	NQTCVCWHACAYVSSNRVPWSIGSAIRS VCCYPLPFPALCAPCL*ISTALD
5185	13236	A	6040	1	537	
5186	13237	A	6041	1	1555	MPYSLNLAIRDTFVNASRTLYSSSPRVLS NNSDANLELINTWVAKNTNNKISRLLDS LPSDTRLVLLNAIYLSAKWKTTDFPKKT RMEPFHFKNSVIKVPMMNSKKYPVAHFI DQTLKAKLSRGDSLKEPTSIAESSRHPSY RSEPSLEPESFRSPTFGKSFHFDPLSSGSR SSSLKSAQGTGFELGQLQSIRSEGTTS YKSLANQTRNGSLSYDSLTPSDSPDFES VQAGPEPDPLGYTSPFLSARLAQQREA ERHPRLVPTGPTHREPSVRYDNLRSRIV ASLQEREKLLRQSPPLPGREEEPGLGDSG IQSTPGSGHAPRTSSSSDDSKRSPLGKTP LGRPAVPRFGKPDGLRGRGVGFPEPGPT APYLGRSMSYSSQIAQPGVSETEEVDLRP LLTPKDEVQLKTTYSKSNGQPKSLGSAS PGPGQPPLSSPTRGGVKKVSGVGGTTYEI SEFDHHCWPVNNCIGRRNYRYFFLFLLS LTAHIMGVFGFGLLYVLYHIEELSGVRT AV
5187	13238	A	6042	1	627	TRREAERHPRLVPTGPTHREPSVRYDN LSRHIVASLQEREKLLRQSPPLPGREEEP GLGDSGIQSTPGSGHAPRTSSSSDDSKRS PLGKTPGRPAVPRFGKPDGLRGRGVG SPEPGPTAPYLGRSMSYSSQKAQPGVSE TEEVALQPLLTPKDEVQLKTTYSKSNGQ PKSLGSASPGPGQPPLSSPTRGGVKKVSG VGGTTYEISV

5188	13239	A	6043	3	2265	PTWLERGGG...AARPQTPOPTAPESRGP SGASALRCRGPTARSLPAASMLGAPDES SVRVAVRIRPQLAKEKIEGCHICTSVTPG EPQVFLGKDKAFTFDYVFDIDSQQEQIYI QCIEKLEIEGCFEGYNATVFAYGQTGAGK TYTMGTGFDVNIVEEELGIISRAVKHLF K\SIEEKKHIAIKNGLPAPDFKVNQFLEL YNEEVLDLFDTRDIDAKSKSNIRIHED STGGNLYCGRLPTRTVNTESEMMQCLK LGALSRTTASTQMNVSQSSRSHAFTIHVC QTRVCPQIDADNATDNKIISESAQMNEFE TLTAKFHFVDLAGSERLKRGTATGERAK EGISINCGLLALGNVISALGDKSKRATHV PYRDSKLTRLLQDSLGGNSQTIMIACVSP SDRDFMETLNLKYANRARNIKNKVMV NQAELVSKSMHFVVKSHDFRWSSWST KPGKRIIDEEGVESINDMFHENAMLQTE NNNLRVRIKAMQETVDALRSRITQLVSD QANHVLARAGEGNEEISNMIHSYIKEIED LRAKLESEAVNENLRK\NLTRATARAP YFSGSSTFSPTLSSDKETIEIDLAKK\DL KLKRKEKRKKKSVAGKEDNTDQEKK EEKGVSERENNELEVEESQEVSDHEDEE EEEEEEEDDIDGGESSDESSESEKANY QADLANITCEIAIKRKLIDELNSQKRLQ TLKKQYEEKLMMMLQHKIRDQTQLERDQV LQNLCSVESYSEEKKKK
5189	13240	A	6044	2	323	EDQGLYSIRMEGARGCLAKSLAL*GAGR GFYSGERTWTLSPSGNCAPYQRGGW WSHA*AHSNLNGVWHHGGHYRSRYQD GVYWAEFRGGAYSLRKAAMLIRPLKL
5190	13241	A	6045	3	902	PFFCSTISYRLCPEGAAGQKKVLPPLV PVVPVRLVGSTRDTSRMRDPAPEPQRDQ TQRQQEPMASPMPAGHPADPTKPVGPW QDCAEARQAGHEQSGVYELRVGRHVVS VWCEQQLEGGGWTVIQRQDGSVNVFT SWQHYKAGFRPDGEYWL\GLEPEHHL TSRGDHELLVLKEDWGGRGARAHYDG FSLEPESDHYRLRLGQYHGDAGDSLW HNDKPFSTVDRDRDSYSG\NCALYQRRG WWYHA\CAHSNLNGVWHHGGHYRSRY QDGVYWAEFRGGAYSLRKAAMLIWPLK L
5191	13242	A	6046	3	218	KAVSLSVTQAGVQWLISLQSPPPRFNRF SCLSLPSSWDYRQVPPRANFCIFSRDRV SPCWPGWSPTPNLK
5192	13243	A	6047	1	297	MVVSLYFPTHPSFPVLLCLVLCPRIL RDCNPPRLPFVIDF\CLGLVNGMPWHSF GGKKREDNVFLHCSHSDLGTVLLAGTA SLQDFSFFQKSPPP
5193	13244	A	6048	1	8157	
5194	13245	A	6049	1126	1355	
5195	13246	A	605	43	208	ARTLIEVIGLSHHNQKAHAMLLNAF*SSI RASP*RSKY*SSLWNQTSRFQIPAPT

5196	13247	A	6050	1	1627	MGSRCLNPFHSDTTGKDSFGNIRGA ETGQGASACSVTSARVTCGAGSEPHSHR NPGISAQVGLAPSYGAARGRRRPLALQQ SPQERRHVGNSTRGLLPASLPGTASSQ SASATASAALPLKVTGPLARNPTPPWTA AAALATRGQRPEKGLFPGAPFSLGKRK RGRGRTWERRRRVSIETSTCFRPGCERL GAAAGANLSQLASSQRPLRERWVLYTII MAAAGAPDGMEEPMDTEAETVATEAP ARPVNACLEAEATAGAGAGTVAEDSGTA RGSLOPA/PAPAQAPGDPVSQASVSNGE DSGGSADSELVLDRIIWNKTKHDVKFPL DSTGSELKQKIHSITGLPPAMQKVMYKG LVPEDKTLREIKVTSGAKIMVVGSTINDV LAVNTPKDAQQDAKAEENKKEPLCRQ KQHRKVLDKGKPEDVMPSVKGAQERLP TVPLSGMYNKSGGKVRLTFKLEQDQLW IGTKERTEKLPMSIKVNVVSDPNEGHE YHNDGRFQLAPTEAISYYWVYVWPTQY VDAIK/DTVLGKWQYF
5197	13248	C	6051	47	298	
5198	13249	B	6052	64	362	XCVWHRRKVAVNLA KLKLF RHYYVMV ICYVYFTRIIAILLQVAVPFQWQWLYQPT GNNPYLQLPQEDEEDVQMEQVMTDSGF REGLSKVNKTASGRELL*
5199	13250	A	6053	1	342	
5200	13251	A	6054	1	485	
5201	13252	A	6055	696	3195	SGRRTPMASCRRRCPFSSSTWSCPPAS WPLASSGCPSSAGTRTASFJHWMAL AFTKSISLLFHSVRALDRGAAGAPITSFES HPPSSLFNFLTTHLMVTVRVPNPPPPSA SHPSVRLTVRLSIHPQINYFINSQGHPIE GLAVMYIAHLLKGALLFITIALIGSGWA FIKYVLSDKEKKVFGIVIPMQVLANVAYI IIESREEGASDYVLWKEILFLVDLICCGAI LFPVVWSIRHLHGCVWHRRRMVAVNLA KLELFRHYVMVGARLTHSGFGGITGL LHAHPSPSAAAPSRGPHGSPARILQSSP MPARAPTVLAPRLAPLQVICYVYFTRII AILLQVAVPFQWQWLYQLLVEGSTLAFF VLTGYKFQPTGNNPYLQLPQEDEEDVQ MEQVEAHTLKLLVKDIKSTVSNVFSEMK ENMDKELKQIMRMİYERRICVADPFVET VMQDFFIDRLPYSVVRNEQVEIRAVLY NYRQNOELKVRVELLHNPFCSLATTKR RHQQTVTIPPKSSLSVPYVIVPLRPACRK WKSRLSTHSSVTVSGKGVQKEDIPPAD LSDQVPDTESETRILLQGTTPVAQMTEDA VDAERLKHLLVTPSGCGEQNMIGMTPTV IAVHYLDETEQWEKFGLEKRQGALELIK KGYTQQLAFRQPSSAFAAFVKRAPSTWL TAYVVKVFLAVNLIAIDSQVLCGAVKW LILEKQKPDGVFQEDAPVIHQEMIGGLR NNNEKDMALTAFVLISLQEAKDICEEQV NIHNRYAATRQLMVAKISGKFSKMDKS KTAGLADCHSVLDVSNKGVLRDVASTS SGIVDWRGSQIQT
5202	13253	A	6056	1	516	LRQPTRPVFGIVIPMQVLANVAYIIIESRE EGASDYVLWKEILFLVDLICCGAILFPLV WSIRHLKDASGTDGKVPVNLPLKLF RH YYVVPAPTPCAPLQVICYVYFTRIIANPL QVAVPFQWQWLYQLLVEGSTLAFFVLT GYKFQPTGNNPYLAVAPGGGGCSRWS K

5203	13254	A	6057	3	528	LSCRVQVSVPRPALPVSAVPGTPGT LTPALLHP/WLADCDVSDSSCSLAATLL ANHSLRELDLSNNCLGDAGILQLVESVR QPGCLLEQLVYVQRAGRVPRLPREE GGGGGHHWAHASLLACVQVRQFTGLR RWRTGLQGPGETSTSLRGHLLRLFLLL AAALDDRP
5204	13255	A	6058	1	334	
5205	13256	A	6059	225	843	WTRCWSRLRASGSSCEGRRAPPRPRCA RYEGGYQRSCGESACGGRRVLGSSLRQ HQGSCRNTRAGMFCGRQYIPHPAASPR RPLGRSRNTQMGTPLSRVLLRSCRKKID/ SLKQKVTHLRGLQIPHEPELMRKEISRLN KTVGRENK*LSRSEAGAGGLQEARDA LERVQMLEQQVSVPRAPDGTQMSAGR WWPKSWDRLG
5206	13257	C	606	892	1269	
5207	13258	A	6060	300	957	GSTKVHAETHALGCSVADSTSRTHQQL HRGAHWGEVGTWRWHTSVQSVIEKLQ EENRLLKQKVTHVEDLNAKWORYNASR DEYVRGLHAQLRGLQIPHEPELMRKEIS RLNRQLEEKINDCAEVKQELAASRTARD AALERVQMLEQQILAYKDDFMSEADR ERAQSRIQELEEKVASLLHQVSWRQDSR EPDAGRIHAGSKTAKYLAADALELMVP G
5208	13259	A	6061	2	271	FFETESRSVAIRLECSGAISAYCTLCPLGS SDSIASASRWAGITGEHHHARLILVFLVE MGFHHVGQAGLGLLDLVHPPRPPKVLG LQA
5209	13260	A	6062	3	376	DYSLGLPVVTTGCWGHMSNAPLRWALN PSYWGKNQLLCPESLALCCGLCCCKPRFL EVTSVRSADLYLSSPCLVRRCPFRGKE KPAVGMRMPDNKGWRRALSSSLSPRVP VAPVAASVLTVMN
5210	13261	A	6063	2	70	
5211	13262	A	6064	3	258	ADPPSPSFCFCFFETESCSVTIRLECSG AILAHCNLC/LPTCHHAWVIFVLVETEF HHVGEDGLNLLNFMYYLPRPPKVLGLQ A
5212	13263	A	6065	1	408	
5213	13264	A	6066	3	25	
5214	13265	A	6067	3	503	
5215	13266	A	6068	1	1740	MAAVVAATRWWQLLLVLAAAGMGASG APQPPNILLMLDDMGWDLGVYGEPS RETPNLDRMAAEGLLFPNFYSANPLCSP SRAALLTGRLPINRGFYTTNAHARNAYT PQEVGGIPDSEQLPELLKKAGYVSKIV GKWHLGHRPQFHLKHGFDEWFGSPNC HFGPYDNKARPNIPIYRDWEMVGRYYE EFPINLKTGEANLTQIYLQEALDFIKRQA RHHPFFLYWAVDATHAPVYASKPFLGTS QGRYGDVREIDDSIGKILELLQDLHV ADNTFVFFTSNGAALISAPEQGGSGNGPF LCGKQTFEGGMREPALAWWPGHVTA GQVSHQLGSIMDLFTTSLALAGLTPPSDR AIDGLNLLPTLLQGRLMDRPIFYRGDTL MAATLAGQKHAHFWTWNSWENFRQG IDFCPGQNVSGVTTHNLEDHTKLPLIFHL GWDPGERFPLSFASAEYQEALSRITSV QQHQEALVPAQQLNVCNWAVMNWAP PGCEKLGKCLATPPESIPKCLWVPLAPA QTQARPRISWPCKCLEEGWLWPRSSPN PAPSQTDSTCRRRGTCITISNLPRT
5216	13267	A	6069	3	2945	
5217	13268	A	607	187	363	MPLRLPIQDVY*IGGIGTALVGRVESGAV NYGLVGSSVH*AVQSVALDFRFSWML YSQ

5218	13269	A	6070	2	3078	
5219	13270	A	6071	3	3204	AGRGRLWGGTASREPQKSAGKFPRWGA FRASRTALGPGARSQERGGGNAPRPP PPRLPPAAVLA AAAVAAAAALPRGAAL KGGTPPPGALAARAPREPVAAMPFRAPP APGPRPPRAAAATDTAAGAGGAGGAG GAGGPGFRPLAPRPWRWLLLLALPAACS APPPRPVYTNHWAVQVLGGPAEADRVA AAHGYLNLGQIGNLEDYYHFYHSKTFK RSTLSSRGPHTFLRMDPQVKWLQQQEV KRRVKRQV
5220	13271	A	6072	3	3002	
5221	13272	A	6073	1	1181	MEVSRAGLSTVLEAVLCPADLTAASLDA ASPMPSSSHLPVLGYPVGKSGARPGSTQ EVVLTAAAVTQEVVLTAAAVTQEVVLT AAAVTQEVVLTAAAVTQEVVLTAAAVT QEVVLTAAAVTQEVVLTAAAVTQEVVLT TAAAVTQEVVLTAAAVTQEVVLT TAGA ENKPVSAPHSSSTCARTGSPGRPLHTQSP PRGHILFGKEKVCYKFKHDILKHLTOLT VDGIVSIPLVQVLRTTALTSACAEHSDQR VVYLEHVVVRTSISHPRRGDLQIYLVSPS GTKSQLLAKRLDLSNEGFTNWEFMTV HCWGEKAEGQWTLEIQDLPSQVRNPEK QG/DVFCTKCHSHQSFEESQDTKS VVAW EGWGCTHGVHCEVPKNLGI RSGKHHLPL KIKLV
5222	13273	A	6074	3	656	RSAFELWTQEGGLPSPSGW/VIIQSLKNL NRTDSRGRRSSPLISCLATGAGTSRHLLP LDWMSTIGCPGSQASRP ELSNHTSGFP GFPAFHPRWWAFSGPQSHINQIPFKSPL CVGSLLQRAYTNLPLFPLQFLRSPTKES TYSQLHPSGSPPGGGPGPRQLGLTSPKAS EQPLPGFDWEGQGS DRRAGADGSGRES SGTPGTAVLQRSSCGTSC
5223	13274	A	6075	3	873	AAEGLPPVRIPPFSETTANGTISFTEMVQ DMGAGLAVVPLMGLLESIAVAKAFASH NNYRIDANQELLAIGLTNMLGSLVSSYP VTGSFGR TAVNAQSGVCTPAGGLVTGV LVLLSLDYLTSLFYIYIPKSALGAVIIMG RGPVSTPRSRNALGFLKRLDLLPLCVT FLLCFWEEQD GILAGALGSLLMLLSAA RPETKGSEGPVLVLQPASGLSFPAMEAL REEILSRALEVSPPRCLVLECTHVCSIDYT VVLGLGELLQDFQKQGV ALAFEG LQVP RLRVLLSR
5224	13275	A	6076	3	256	HASGMKNDLVYTGVDPETLPNRNGDGV /PTGLSPDPQFRTRKIQASLLTLEETMKQ LEELEEEFRRLKPLL ANLGNSVPHPGCT

5225	13276	A	6077	1	1966	MAEPLLRKTTGRLRGREKLPRKKSDAKE RGHPAQRPEPSPPEPEPQAPEGSQAGAEG PSSPEASRSPARGAYLQSLEPSSRRWVLG GAKPAEDTSLGPGVPGTGEPAGEIWYNP IPEEDPRPPAPEPPGPQPGSAESEGAPQG AAPASPPT/NSLPHQVPGPRQAPLHKDEE AAGTAAPPEPARPPGWQGAREGCPCGL RHQPLPPGQQRGGPRAGSRAWGHPEPE GRLPQRRGLTGAPSWAPITHLLPALRGG SRSPGTPGRTLGPQPAPVRSRGAAASA GGHPQGPLLPTASGWGGQGNRATARG AGLPAAGPHLPPGAGGRQAPARPGACV GPWREKAPALCPGHRAAAHGLPRICQA QQLAVRLEPQGLLYAKLTLSEQQEAPAT AEPRVFGPLPLLVERERPPGQVPLIQKC VGQIERRGLRVVGLYRLCGSAAVKKELR DAFERDSAACVCLSEDLYPDINVITAVPSL ALEASGALTRGDPVFTGILKDYRELPTP LITQPLYKVVLEAMARDPPNRVPPTTEG TRGLLSCLPDVERATLTLLDHLRLVSSF HAYNRMTQNLAVCFGPVLLPARQAPT RPRARSSGGLASAVDFKHIEVLHYLL QSWPVPACPDNLQMSRLTCDPNDSHLCT CRWQTPKW
5226	13277	A	6078	2	82	
5227	13278	A	6079	1	347	FFFFFFFFLETASHSVAQAGGQGHDLSSL QPPPPRFKQFSCSLSPSSWDHRHKPPHPP NFVFLVETGFHHVGOAGLELLTSSDPPA SASQMAGITGVSHCAWPITFKQSNYGM L
5228	13279	A	608	514	792	DSRCPGAMACALRAPPRITNPVSAQWDP ETGSVAGEPWIWTQRENRQSALQRGNV PFCRCRDHEFTLDLGGQGGQIT*GQEFET SLANMAKPH
5229	13280	A	6080	1	779	
5230	13281	A	6081	1	214	HPTAAIVPPGPEAGLIYTPYEYPYTLAPA TSILEYPIEPSGVLVWLSQRKAKNSRTV LTEPSSDLNLTNA
5231	13282	A	6082	3	435	EPFPGGDCIPRATLESCRSMLMDTVGS GKLNLEQEFHHLWNKIKGWQKIFKHYD TDQSGHHQTATKMRNAV/NTDAGFHLN NQLAYDIITMRYADKHMNIDFDSFICCFV RLEGMFRAFHAFAFDKDGDIKLNVLWL QLTMYA
5232	13283	A	6083	2	339	GKPTLREFTHL/WDKIKGWREIFNNITPS QSGTITGYEMRNA/VNDAGFHLNPNLYD IINTSRTADNHMNIDFESFICCFVRLEGM FRAFHAFAFDKDGDIKLNVLWLQLTM YA
5233	13284	A	6084	2	775	PSASDQSTWYLDESTLTDNIKKTLHKFC GPSPVVFSDVNSMYLSSTEPAAAAEWAC LLRPLRGREPEGVWNLLSIVREMFKRRD SNAAPLLEILTDQCLTYEQITGWVYSVR TSASHSSASGHTGRSNGQSEVAHAHACAS MCDEMVTLWRLAVLDPALSPQRRREL TQLRQWQLKVIENVKRGQHKKTLERLFP GFRPAVEACYFNWEEAYPLPGVTYSGT DRKLALCWARALPSRPGASRSGGLEESR DRPRP
5234	13285	A	6085	193	388	
5235	13286	A	6086	2	353	AAEDLSDALCEVDAVLADFASPFHER HFHYEEHLERMKRRSSASVSDSSGFSDS ESVADSLYRNSFSVFSDEKLNSPTDSTPAL LSATVTPQKAKLGDTKELEAFIADLDKT LASM
5236	13287	A	6087	315	411	
5237	13288	A	6088	2	283	
5238	13289	A	6089	3	189	

5239	13290	A	609	1169	1335	NFASDDKFS A*NPSNLGGQGGQIT*GQEFETSLANMA
5240	13291	A	6090	1931	3137	KMEISSLKEEINMEPNHSETMFKKAKTK AKKKPRKRSDDSSGGYNLSDIIQSPSSTGL LKSGKTNSVESLPELLTSDSEGSYAGVGS PRDLQSPDFTTGFHSDKIEAKVKPYVNG TSPVYSREDLKPWEKSPILKISAPQIPSN RIDTTSSASWVAGSFSPVSPVVDLRTIM EIEESRQKCGATPKSHLGKTVSHGVKLS QKQRKMIALTTKDNNSGLNSMQTVICIP SDAP*TVNE*GSSLHSVSSKSFRDFLEE KKSVTSHSSGDHVKKVSFKGIENSQAPKI VRCSTHGTGPPEGNHISDLPLLDSPNPWL SSSVTTPSMVAPVTFASIVGRGTSTKEAA LIRSREKPLALVQIEEHAIQDLLVFYEAFG NPEEFVIVERTPOGPLAVPMWNKHGC
5241	13292	A	6091	336	410	
5242	13293	A	6092	40	921	TEVPGVHSENDKNQKKIRKLDPKKKQ VDTVQIIQGSKKGSSFLIFFSPLIILTVEL QVGNVVAQELSIQLELFWRTASQSVTE PTAGLCLLNPGEQEMRALRGRKPLLI PSKQDLEWTSSKLQQTCS*GF* R*KEN* QTERSTPKPHLVGSSGQGNQAGEGNK GYPVRKRGSQIVPVC*HDCISRKPHCLN PK/YLS**ATAAKSQDTK/FNVQKSQAF LYTNKQTDSDQIMSELPTIASKRIKYL NPTYKGCEGPLQGLQTIQARNKTEPNK WKNIPVMGEEPM
5243	13294	A	6093	1	1960	MPPHSEQPHSPSTRQKRKVPFLVRQCPSF VIQAPKAKMDTFDGRKKQFTRFLFLFSM DQLGQGRFSMQTSLFALAVYRKDSPLV ACQVQALGNLEPSSVEAHVSSHGIAIDR KGWHVSLFSIQPGDCFPKALVEDSPRDR ARRQSSKEEGWCRDRRLKFHSSKGA AAIVVSKSKYESPSFGVCFESLLNPPRLT SRREKTISSSKRCRQCHAEETTUVFWAK ESQTGEQTGRGAGQRRMGMIICKACSM LPAERQDLRPTSLVISHGVSVKDRREHC QCPNYYPPLRNMSPLEHSIKICGGKKPQ NDSQRITITIKVIVNQDFKQPDDELTSQG SRKETSEASLVTLWELVTAGQTPPLVTP RQTGSGVDLQQTPTDLQLRVLTIIRKTN KQKGHPKPHLYVTIHKDQRTLHPKSTY TFFSAPHPTYSKIDHIVGSKALLSKCKRT EITNCLSDHSAIKLELRIKLTQNRSTTW KLNNLLNDYWVYKEMKAEIKMFFETN ENKDTTYQNLWDTFKAMYSKGFMALN AHKRKQQRSKIDTLISQLTELEKQEQTHS KASRRQETTKIRAELEIETQKTLQKINE SRSWFFEKINKIDRTLARLIKREKNQI DTIKKIKVISPPIPQKYKLLFILFGTGTQIN
5244	13295	A	6094	275	1839	CPSVGFSLQAGVVFCKLLTAKDF*QQT QGFSQ/RLSQLHTHGHRALQKKAISSEKNE FTIMGQISEATSALFGEKESKEATLRGEG ARNRDDRVDNCRLOPPGQDGDGEGQKV PVKYSAGDTQANRVWGLQQTPTDLQL RVLTVRRKTNKQKGHPHQNPICTSASSK TKEIQTIREYHKNLANKLENLEEMDK FLDTYTLPRLNQEEVESLNRPIGSKIEAII NSLPTKSPGPDAFTAIFYQRYKEELRIK YLGILTRDVKDLFKENYKPLLNEIKGH KQMEEHSMMDRKNQYCENGHTAQEL EKTALKFIWNQKRAHIAKTILSQKNKAG GIILPDFKLYYKATVTKTAWYRYQNRDI DQWNRTEPPEIIPHIYNHLIFDKPDKNEK WGKDPLFNKWWYENWLAICRKLKLDSE LTPYTKINSRWIKDLNGRPKTIKTLEENL GNTIQDIGMGKDFMTKTPKAMATKAKV GKWDLIKLSFCTAKETTIRVNRQPTW

						EKIFAIYPSDNLISRI
5245	13296	A	6095	78	1986	EKTKSASDWCT*K*RGVDGTLKLENTLQDI IQDNFPNLGRQANIQIQEIQIMPQRYSSRR ATPRHIIVRFTKVKMKEKILRAAREKEIQ TTISEYYKHL YANKLENLEEMGKLLDTY TLPRQNQEEVESLNRPIAGSEIEAINSPLT KKSPPGPDGFTAKFYQRHKEELVPFLLKQ FQSMEKEVILPNSFYEASIILIPKGRDIT EKENFTPISLMIIDAKILNKILANRIQQHIK KLIHQDQVGFISGMQGWFNHKSXNVH HINRTKDRNHMISVDAEKAFNKIQPF MLKTLNKLGIQLTRDVKDPFKENYKPLL NEIKEDTNKWKIPYSWIGRINIVEIAILP KVSLEERERQHDQTHVQSLEKLDLLEQE YNKLTMMQALAEKKMQELEAKLHEEEQ ERKRMQAKAAEHPRCLYLAIFSAKLN LQDKIRRELERIQAEESVKTLSTETIEYK KVLDEQIERENSKNEESKHNLQELTSQ LAAENKCNLLEKQLEYMRNMIKHAEME RTSVLEKQTPLLIPRQGRSVDLQQTPTD LQLRVLTVRKTNKQKGHPHQNPICMSP SSKTKEERSSPTTERTSWTENDFDELREE GFRRSNYSELKEELQTHGKEVKNLEKKI RRMAN
5246	13297	A	6096	870	1860	TRKSRRNG*IPGHIHPPKTK\QEEAESLNR PITGSEIEAINSPLTKKSPGTDGFTAKFY QRYKEELVPFLLKLFQSEIEEILPNSFYE ASIILIPKPDRTTKENFRPISPMNIDAK TLNKTLANRJQQHIKKLIHHDQVGF/H NARLVQHMQINKRNPAK*NQRQKPHD YLNRCRKG*QNSTALHAKTSQ*ISVGSS GQGNQAGEGNKGYSIRKRGSQMSLFAE DVIVYLENPIVSDQNLKLISNFSKVSGY KINVLNSQAFLYTNNRQTESQIMSEVPFT IASKRIKYLGIQLTRDVKDLFKENYKPLL KEIKEDTTFHAHG
5247	13298	A	6097	453	545	
5248	13299	A	6098	1	235	
5249	13300	A	6099	3	706	
5250	13301	A	61	1	1194	
5251	13302	A	610	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5252	13303	A	6100	368	798	LSYIYMHPIQ/RAPRFIKQALRDSQRDL SHTIIMGDFNTPLSTLDRPTRQKVNKDIQ ELNSVLHQVDLIDIYRTFHPKSTETFFS APHRTYSKIDHIVGSKALLSKCKRGEIT KIKLELRJIKQTQNRSTTWKLNLLND Y



5253	13304	A	6101	1	666	
5254	13305	A	6102	412	681	GDIIPKCSQPLNIHFHYVFKMR*GSSRPG RGPEIRCFSPAARLLLTAAHQWQWLWAI FQQVALLPHAGGADHVILFSPVSKAT EKIVG
5255	13306	A	6103	489	585	
5256	13307	A	6104	1	1474	MDMLDKGMIQVPVESLECPEHFVQEPV LPSELRSEKQEPWNQPSLDLEPSFATYM ACSM LPAERQDLRPTSLVISHGVSVKDR REHCQCPNYYPPLRNMSPLEHSIKICGGK KPQND SQRJTITK VIVNQDFKQPDDEL SQGSRKETSEASLVTLWELVTAGQTFQ DDRMGTAPVYSSQRERRRRRVISACPTE PPLVTPRQTGSGVDLQQTPTDLQLRVLT RRKTNKQKGHPKPHLYVTIKDQRTLH PKSTEYTFPSAPHPTYSKIDHIVGSKALLS KCKRTEIITNCLSDHSAIKLELRKIKLTQN RSTTWKLNLLNDYVWYKEMKAEIK MFFETNENKDTTYQNLWDTFKAMYSKG FMALNAHKRQQRSKIDTLISQLTELEK QEQTHSKASRRQETTKIRAELEIETQKT LQKINESRSWFFKINKIDRTLARLIKKK REKNQIDTIKKIKVISPPQKYKLLFILF GTGTQIN
5257	13308	A	6105	1	903	
5258	13309	A	6106	803	1184	
5259	13310	A	6107	1458	1568	TQTNLQEKNTTQSKSGQRV*TDTSRKK TFMQPTDT
5260	13311	B	6108	24	2456	MGVSSGDLKGLLHPRVRVGN EYVTKG QSVEQVVF AVGALAKATYDRLFRWLVS RINQTLDTKLPRQFFIGVLDIAGFEIFEFN SFEQLCINFTNEKLQQFFNQHMVFLEQE EYKREGIDWVFIDFGLDLQPCIDLIEKEE RLKPSRKKITKKHTKKRTASLILHAMICC RSLNSSKTKNTKCLNSINQRLKIWSLQK DLMCGTAGRCKTLHGTSQNLNTAIHVVL ALAGSPKDADDTSIYMFYQKHILYCIVD SECKSRDVLQSYFDLLGELMKFNVD AFK RFNKYINTDAKVFLKQINSSLVDSNMLV RCVTLSLDRFENQVDMKAALLSIPGFVE RLCKLATRKVSESTGTASFLOELEEWYT WLDNALVLDALMRVANESEHNQVFW FEQHGLVSGAEKAPGTTIDQAPRIYRWS DLTRTQAQWQSAMTWSMSAFTETFLTE RDKQSKWSGIPQLLLKLHTTSHLHSD FV ECQNLKPLLVIPRQTGSGVDLQQTLDL QLRVLT VRRKTNKQKGHPHQPICMSPS SKTKEAKNLDKRLDEWLTRINSIEKTLN DLMELNTMARKLRDACTSFSSQFDQVE ERVSVIDQM NEMKREEKFREKRIKRNK QSLQEIWDCVKRPNLRLIGVPESDGENG TKLENTLQDIIQENFPNLARQVNIQIEIQ RTPQRYSSRRGTPRHIVRFTKVEIKEKIL RAAREKGRVTHKGKPIRLTAVLLAETLQ ARREWGPINFILKEKNFQPRVSYPAKLSF ISEGEVKSFTDKQMLRDFVTRPALQEL LKEALNMERNNRYQLLQKHAKL*
5261	13312	A	6109	82	1208	LVEGKLTNRKNIHTKTPSVHHHHQRPKC GREMWGQSPHTESLLGHHLVELWEEGH CPLDPRMVDPTACTMYLEKPQTLNASL /WKAARSQVPQGGGKGTKKSETEIQATI REYYNKHLYANKLENLEETEKFLD TYTL PRLNQEEVESLNRRTGSKIEAINS LPTK KSPGRDGFTA EFYQGYKEELVPFLKL F QSIEKEGILPNSFYEASIIIAKPGRDTATT TKNFRTISLMNIDAKILNKILENQIQHIK KLIHNNQVGFIPGMQGWFNHKSINVIHH IKRTKNKNHMIISIDAGKAFDKIQQPFML KTLNKL GIDGMYLKIIRAIYDKPTANIILN

						GQKLEAFPLKTRQGCHSYSTLTTPIQH SV
5262	13313	A	611	3	552	HSLFGTSEVINKLRSPDAMGHL/TPEEDK ATITSLWGKVNVEDAGGETLGRLLVVYP WTQRRFDSFGNLSSASAIMGNPKVKAH GKKVLTSLGRCHKSTWDDLKG/TPFAQA *SELHCGQACMWDPPELSSFLGKCCWV TRFWAIPFSAKEFHPWRLQGFPKSRRW QKMVTGVASALVPSRYH
5263	13314	A	6110	1261	2396	LNALYFLLLPDCPGQN**TASKTNKEEK REESNRCNKK**S'NITNPTIEQTTIREYY KHL YANKLENLEEMDNFLDYTLPRLN QEEVESLNRPTGSEMAIINSLPTKKSPG PDGFTADFYQSVGSSGQGNQAGEGNKG HSIRKRGSIQVPVCR*HDCISRKPHRLSPK SP
5264	13315	A	6111	1	819	MCHSAIFTVLQPPLVVIPRQTGSQVDLQ QTPTDLQLRVLTVRRKTKKQKGHPHQN PICMSPSSKTKATFEDSVWHFAERIIPDP NVIKLRKEELTLNNIRQYYVLCHEHRKDK YQALCNITYGSITIGQAIIFCQTRNAKWL TVEMIQDGHQVSLLSGELATVEQRAPFIQ RFRDGKETVLITNTNVCARGIDVKQVTIV VNFDPVKQGEEDYETYLQRIQRTGRF GKKRLAFNMIEVDELPSLMKIQDHFNSS IKQLHAEDMDEIEKIDY
5265	13316	A	6112	1	1068	
5266	13317	A	6113	3	655	LLSNDQRCISISFNKTREKASATRVYIVLD NSGFELVTDLILADFLLSSELATEVHFYG KTIPWFVSDTIHDFNWLEQVKHSNHK WMSKCGADWEEYIKMGKWVYHNHIFW PVPHEYCAMPQVAHDLYAELQKAHLIL FKGDLNRYRKLTDGRKWEFSVPFHQALN GFHPAPLCTIRTLKAEIQVGLQPGQGEQL LASEPSWWTTGKYGIFQYDGPL
5267	13318	A	6114	3	225	GACGRPPFFRPLPRGAPP/PAMAAPFSP PASAPGAAPTFFPSLGPAPWHPALFLTGIN LTCFSKEREKEAQSXY
5268	13319	A	6115	2	624	
5269	13320	A	6116	2	594	NRGSCHRGKLFEGAFKYKMGQIEIDDQV EGLQYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDIFRVAIAGSPVTLWIF YDTGYTERYMGHPDQNEQGYLGSVA MQAEKFPSEPNRLLLHGFLENVHFAH TSILLSFLVRAGKQYDLQSYQERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV I
5270	13321	A	6117	4	310	
5271	13322	A	6118	1	601	LQKWSLEYIQEIAGCRTVPVEVGSRYTD EEWSQTLMTVNEFISKYIVNEPRDVGYL AQHQLFDQIPELKQDISIPDYCSLGDGEE EEITINAWFGPQGTISPLHQDPQQNVLVQ VMGRKYIRLYSPQESGALYPHDTHLLHN TSQVDVENPDLEKFPKFAKAPFLSCILSP GEILFIPVKYWHYVRALDLSFSVASFWWS
5272	13323	A	6119	3	306	EIIAFS/DRAED/FRKLGCEVLGVSVD SQ THLAWINTPRKEGGLGPLNIPLLADVTR RLSEDYGVLTDEGIAVYVCPAGWKPGS

						DTIKPNVDDSEYFSKH
5273	13324	A	612	251	488	GGWITRSGDRDHPG*HGE/IPVY*KKLAG RGGGRLKSQLLGRLRQENGMSGGRAC SEPRSHHCTPAWVTERLLLKKKKK
5274	13325	A	6120	1	774	PTRTKGFAGQGS LGAENAGPRVVIVRAS RGLPTQLSVMASGNARIGKPAPDFKATA VVD\GAFKEVKLSYDKGKYVVLFFYPLE LHFCGAPTEIIAFSNPCRGTSRKLGL*SAG ASRWDS\HFTHLAWINTPRKRGEALGP L\NIPPALLNGEPERLV*GIYGRC*KTD*G AFAYKGASLFIRLGKGC PF AKITLLIDL P VGTLP LDEGFCGLVQGLSQVHKTS HGG KFVPA\GWKALPVATD*APTWM TARKY FSKH
5275	13326	A	6121	3	306	KNWPPPRFF/YKGPPPPSSSSSSSSSSSSSS PLTPFFSSSPGVCPLKGSSSSPPPKPVG RPPSSSQGGKPPFFKPPNFFPKNSPTG GAPLKPFWKNF
5276	13327	A	6122	1	200	PPHNVP RRWSANLYLTP\SNMVLLTAIAL IGVCVFILAIIGILHWQEK KADREKRQE AHRFHFDAM
5277	13328	A	6123	2	297	
5278	13329	A	6124	1	211	VSPHVLIRRQSSRHLGSLYLQAPFV*MA GCLLETGSHV*TYKDLHVITITRHLPLW KTRSTLNFQVARSS
5279	13330	A	6125	1386	2151	DYLCEKHQYRQLCGYLQPCQGS PCVWT PRAGSGRAALRTGMAVLARAAGQRLRA RLPPQAQRARAAAAGALRERGLCAPPRPP APGAGRQSPQQSGELRVPSTTSSTCRSC WSARPWGSRRGRAVPQRRRNATATGSP RPLRRLRPAASPRRGAASERPNWDP PRTARSRALNLRSSSKVNATLVPCHKET EAQRGVWTGETIPVRTCFGLIGQQSHS MEVAEWTDKAVNHIWKAPRNTALKMT QTYNDPAD
5280	13331	A	6126	1	1337	MRNKAVGQARAPPAQLAGWAAPFKLL DGRPQVFPEMPQPVAGCTATGPREKLG GPGRPRGRVAASVQRLMNEMNLSPVGM EQLTSSSVSNALPVSGSHLGLAASPTHSA IPAPGILSYLADRPPQYIHPNSINVDGNT ALSITNNPSALDPYQSNNGNVGLEPGIVSI DSRSVNTHGAQSLHPSDGHEVALDTAIT MENVSRTVTSPISTDGMAEELTMDGVAG EHSQIPNGSR SHEPLSVDSVSNLAADA VGHGGVIPMHGNGL\ELPVVMTDHIAS RVNGMSDSALSDSIHTVAMSTNSGPRE SSAVAPVASHFSVHVLF SFIWVSPADAE TLGESLLGLTVYGSNDQDPYVTLKDTEQ YEREDFLIKPSDNLIVCGRAEQDQCNEV HGNYIAVGNMTPVIEVWDLDIVDSLEPV FTLGSKLSKKKKKKKKKKVKKLNI

5281	13332	A	6127	1	2412	MKMNLSPVQQAQLTSSSVSNALPVSGS HLGLAASPTHTSAIPAPGLPVAIPNLGPSLS SLPSALSMLPMGIGDRGVMCGLPERNY TLPPPPYPHLESSYFRITLPGILSYLADRP PQYIHPNSINVDGNTALSITNNPSALDPY QSNNGVGLPGLVSDSRSVNTHGAQSL HPSDGHEVALDTAITMENVSRVTSPISTD GMAEELTMDGVAGEHSQIPNGSRSEPL SVDSVSNLAADAVGHGGVIPMHGNGL ELPVVMEETHIASRVNGMSDSALSDSIH TVAMSTNSVSVALSTSHNLASLESVSLH EVGLSLEPVAVSSITQEVAMGTGHVDVS SDSLSFVSPSLQMEDSNSNKENMATLFTI WCTLCDRAYPSDCPEHGPVTFVDPDPIES RARLSLPKQLVLRQSVGAEVGVWTGET IPVRTCFGLIGQQSHSMEVAEWTDKAV NHIWKIYHNGVLEFCIITTDENECNWM FVRKARNREEQNLVAYPHDGKIFFCTSQ DIPPENELFFYYSRDYAQQIGVPEHPDVH LCNCGKECNSYTEFKAHLTSHIHNLPT QGHSGSIGPSHSEKRWKCSMCPQAFISP SKLHVYFMGHMGMKPHKCDFCSKAFSD PSNLRTHLKIHTGQKNYR\CTLCDKSFTQ KAHLGVHMHVIHTGEKNL\CDY/CVDK LFYGGSRDLQGRHVLIHTQER\QIKCPK CDKL\FLRTNHLKHLNSHEGKR\DYVC EKCTKAYLTKYHLTRHLK\CKGPTSSF VQAPEEEEEEDDSEEDLADSVGTEDCRI NSAVYSADESLSAHK
5282	13333	A	6128	1	1767	MQALIPLESGSGMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNQSKSKFKNNYSTQPARMERK EEILNPPFEGKDGDGTGSIPHSKEIGFTFP KMHDSFSHTPDTPTEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVSEENKTD ANRYTAVADKPSERSNDGKSSGSAACE KLPTPTPQVVKEGDSFPDTLAKNGQEIA AQISKSLMVDNYTKDGVPGQERPKGPSA VVPSTSTGGVALPITTAIETVNIHGDHSL KNKAELADSMKNEAGIDEGHVIGESV HSGASKHSVEKVTELAKGHLLPG/CASR RPEPTRRGQSPRR/T/HADRGNFPAHPVN EEKETKEGSVAVQIPDLLEDKAQKLSFC EDQNAQDRNSKGSDSLNNKVDLTLLSP KSENDKLKEISLACKITELESVSLPTPEIQ SDFLSKVEAPPSEVADTLVIMTASKGV RLPEPKDKILETPQKMTESKTPGEGK KEDKSRMAEPMKGYMRPTKSRGLTPLL PKSTIQEQERHKQLKSAGMNLPGWNV ACGF
5283	13334	A	6129	893	3822	GKGNHATVNLLSFLQRPQVGSVLVHPPVV G/HGNQRKSIHVDLEPQORDLGREAWDI ESTPIMMKKKKKPKQKRYSQPRAGGP SDDDNADKPKGHPFAADTQKSGVLPSQ PTTMGTEYGLVSGENLKRECLVNSSAAR LVAENFVSESLRIPLYPSEEAPKTAISSQS KLRVEEESKSNKSVLQNDKLLKQHE YKPQPAPHLKTPVDKSQSVGPNLKGPL AEVSAYNVETPLDIRLKEGCSFFLDQEV MGVV
5284	13335	A	613	5987	6461	GVNKSWNHWFHLGVREAHEHAGVVRT PHHDLVLLPRGMAACALGACSLGAVAL PGHPVAGGVSHGCSSTTYRGERHRV GRMRQKNRLNPGGGGCGEPRSRHYTPA WATQNSVSKQNKTKQNKHLVHWN RKKWIYLLFALKKYKMSMLCRKS

5285	13336	A	6130	1	1965	MQALIPLESMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNEGKSKFKNNYSTQPARMERK EELNPPFEGKDGDGTSIPHSKEIGFTFP KMHDSFSHTPDPTVEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVVSEENKTDA ANRYTAVADKPSKRSNDGSKKVKNSS PEKHILENKIDATKIHVPMETTGDQGIEG WPIWTKIEIL/RFTCPRTPELINKSSPLEV LESAACEKLPTTPQVVKEGDSFPDTLA KNGQEIAPAQISKSLMVDNYTKDGVPGQ ERPKGPSAVVPSTSTGGVALPITTAIETV NIHGDHSLKNKAELADSMKNEAGIDEG HVIGESSEVHSGASKHSVEKVTELAKGH LLPG/CASRRPEPTRRGQSPRR/T/HADRG NFPAPVNEEKETKEGSVAVQIPDLLED KAQKLSFCEDQNAQDRNSKGSDSLNNK VDLTLLSPKSENDKLKEISLACKITELESV SLPTPEIQSDFLHSHKVEAPPSEVADTLVI MTASKGVRLPEPKDKILETPQKMTEKSE SKTPGEGKKEDKSRMAEPMKGYMRPTK SRGLTPLLPKSTIQEQERHKQLKSAGMN LPWGNVCACGF
5286	13337	A	6131	1632	2783	VILLSKSLIIQENFFFFF*QSFALVAQAGV QWSNPCSLQPPPGFNGFSCILPSSWD YRRVPPCPANFVFLVETGFHHVGQAGL ELLTSGDPPTSASQSAGITGVSHHAQPAE DIANNVTLFFPLHLFL
5287	13338	A	6132	240	564	NGWEFKHGPSWPGGFFFFFETESRSV A/TRLECSGVIPAHRLCLPGSSDPASAS QLTGTGGAHHHARLIFVFLVETGLRHLS QAGLELL/NLIHQWPNPQELGLQA
5288	13339	A	6133	1	1898	MAASGRGLCKAVAASPPAWRRDNTA RGGLKPEYDAVVIGAGHNLVAAAYLQ RLGVNTAVFERRHVIGGAATEEIIIPGFK FSRASYLLSLLRPQIYTDLELKKHGLRLH LRNPYSFTPMLEEGAGSKVPRCLLLGTD MAENQKQIAQFSQKDAQVFPKYEEFMH RLALAIIDPLDAPVDMAAFQHGSLLR MRSLSLTKPLLKAGRILGAQLPRYYEVL TAPITKVLDQWFESEPLKATLATDAVIG AMTSPHTPGSGYVLLHHVMGGLEGMQ GAWGYVQGGMGALSDAIASSATTHGAS IFTEKTVAKVQVNSEGCYQGVVLEDGTE VRSKMVLSTSPQITFLKLTPQEWLPEEF LERISQLDTRSPVTKINVAVDRLPSFLAA PNAPRGQPLPHHQCSTHLCEDTLLHQA AFEDAMDGLPSHSDLGSAKIHTPKDRKC IPGEKSEDEGRPVIELCIPSSLDPTLAPP CHVVSFLTQYMPYTLAGGKAWDEQERD AYADRVFDCIEVYAPGFKDSVVGDRDILT PPDLERIFGLPGGNIFHCAMSLDQLYFAR PVPLHSGYAGPLQGLYLCGSGAHPAPY SEILTSLTKRVPIQHVHPQLRLWAVDLA PPQTFGAGSLEGARIY
5289	13340	A	6134	163	513	CLLFFLTPSHFSVFGTPVFD CNRVYAPGF KDSVVGRDILTTPDLERIFGLPGGNIFHC AMSLDQLYFARPVPLHSGYRCPLQGLYL CGSGAHPGGVMRAAGRNAAHVAFRD LKSM

5290	13341	B	6135	1	720	MGCKHWMTCGRARKEGKDDSYMQTQ WLHRAFAAPPETCPFPLRDHIQTGRDLYI LGTFEKCVFWGGAEREVWRERHQREPG LRAAFAGQLEFPAGVGLAGPALGAAGQ PCWPRGNEGLSTRASGCGGCTGSSSSAS PPVLCSSHQALAAFLRGRSRDLQRAMP EPPTPSMGSCAAGASPTSTTPCSKEPSID HPRAEECECTARDWQAAPPAALVRDPL GEASWAPESGGDMESLYI*
5291	13342	A	6136	133	311	QLHADKVSFATHA/GVPWCDHGLFQP QPPPLKRSSCLSLWSSWDYRHAPHPAII CLLL
5292	13343	A	6137	1	1098	
5293	13344	A	6138	2	241	PPRFKRFSCLGLSSSWDYRCTPPRSANFC NLVEMGFHHVQAGLELLTSDDPPTLAS QSAGITGVSHHAGPHRFLINIY
5294	13345	A	6139	3	333	YFISSHFISFHYVISFHLITFHLISFH/HHFI SSFHFISSFHLFISFH/HHHLINSFHLISSFH HFISSFHLISYLSIFQF/HFHYFMSSHLISSF HLITSHHFINFIISSFH
5295	13346	A	614	180	345	GLSFHMLKKKVYKMYCIYICTHTHT HLI*MYINRPSLDYQFLFYLSQLDSC
5296	13347	A	6140	3	137	GVSPCWPGWSRAPDLK*SAHLGLPKCW HYRRPIHDCGQAPHLHC
5297	13348	A	6141	967	1386	KKKKIFIGHQLRWL*RFFFFFFETGSHS VPQAGVQWCDHGSLQPSQSPAQRSSNL SLPSSWDYRHLPPCLANFIFFFVEMGLT MWPRLVLNS/GPSDLPASVSQ/SAGITGV SHRNWWPMKIFFFQTASHSVAQAGVQ WCNLGSLQALPPAFMPFSCLLPQPPSSW DYRSLPPCLANF/CFGFLVETGVSPCWPG WSRTPDLR
5298	13349	A	6142	278	643	GRQERGERERSSRPLGGRKCQ/HWLAVN AQOKLLALQVEKAKVEVGVPALGILV VAGCSFAIRRYQKKSLSLKQPQNPVLEA AVGVPPVEMSLPHASSSLTLVPCLRRSLD PFLCFPLSLAKV
5299	13350	A	6143	18	479	QRTFCKGKWKGAAKILIDLNNLFLCKLE OKGTDLALVIAMENYGSLSGSKKGVDLP AVDLLAMSEKDIQDLKFGVEWDVDMVF ASFIHVASNVHEIRKAILANWSKVPTCPP ELGSYLPRGTETHSYFYISYSSDQIQICKP LHYSYGRNYDTL
5300	13351	A	6144	3	282	RSPPA/GSPPPSAPAPRLPPPPAPPPALPFP ASRPTFPPLPVSLPVLPSRSLSLPPAFLF SFFCIGVLGLLHTRALSIAAYIKAGAIMQ LYC

5301	13352	B	6145	26	2671	MAAPGAPAEYGYIRTVLGQQILGQLDSS SLALPSEAKLKLAGSSGRGGQTVKSLRI QEQQVQTLARKGRSSVGNLHRTSSV PEYVYNLHLVENDFVGGSPVPKTYDM LKAGTTATYEGRWGRGTAQYSSQKSVE ERSLRHPLRRLEISPDSSPERAHYTHSDY QYSQRSQAGHTLHHQESRRAALLVPPRY ARSEIVGVSRAGTTSRQRHFDTYHRQYQ HGSVSDTVFDSIPANPALLTYPRPGTSRS MGNLLEKENYLTAGLTVGQVRPLVPLQ PVTQNRASRSSWHQSSFHSTRTLREAGP SVAVDSSGRRHLTVGQAAAGSGSNLL TERSTFTDSQLGNADMMENTLERAVSML EADHMPPSRISAAATFIQHECFQKSEARK RVNQLRGILKLLQLLKVNEDVQRAVC GALRNLVFEDNDNKLEVAELNGVPRLL QVLKQTRDLETKKQITDHTVNLRSRNG WPGAVAHACNPSTLGGQGGRTSRGVR DQPDQHGLLWNLSSNDKLNLMTEAL LTLTENIIPFSGWPEGDYPKANGLDFDI FYNVTGCLRNMSSAGADGRKAMRRCD GLIDSLVHYVRGTIADYQDDKATENCV CILHNLSYQLEAELPEKYSQNIYIQNRNI QTDNNKSIGCFGSRSRKVKEQYQDVPMP EEKSNPKGVEWLWHSIVIRMYLSLIAKS VRNYTQEASLGALQNLTAGSGPMPTSV AQTVVQKESGLQHTRKMLHVGDPVSKK TAISLLRNLNRNLSLQNEIAKETLPDLVSH PDTVPSTDLLIETTASACYTLNNIQNSYQ NARDLLNTGGIQKIMASAGDAYASNKA SKAASVLLYSLWAHTELHHAYKKAQFK KTDFVNSRTAKAYHSLKD*
5302	13353	A	6146	2	355	FYFLRWSFTLIAQAGVQWRDLGSPQPLP PRFKQFSCSLNSWDYRHAPPRPANFL CF/LVETRFLHAGQAGLELLTSGDPPTLA SQSAGITGASHRNPVQSLRLEGLETIV QPPT
5303	13354	A	6147	3	277	FFLETEFRSTQSPRLECSGAISAHCNLQLP GPSHSPASASRAAETGLCHHARLIFVFL VEMRFHHVQGSGLELRQAICLPRPPKVL GPQA
5304	13355	A	6148	20	363	LHHFPKPCPAHFSACIHWPOHPHTCACT QAHMCKPKH/THTHACTH/ICVLSGTHP WVHTGVCARSSSSS/PSSSSSLRYTRQV HALLHTAQPQRLKASEPTPAQLQPGRQE GLTG
5305	13356	A	6149	3	301	STATWAGVQWCNLSLQPLPSGFKPFSC LSLPGSWDHRHLPPCANFLYCFVLVEM GFHYVGQAGLKLLT/S/GDLCASAPQSAG STGVNHRVRLGLLIYP
5306	13357	A	615	173	338	GLSFHILKKVKYKYMCIYMYICTHHTH LI*MYINRPSLYDYQFLFYLSQLDSC
5307	13358	A	6150	15	352	DSIFTLVCAEHINFLRAGQHWGCVIDCL HYNKQAVTGDHSSYSAERSSTPENGGRE GTREQGERRGGTWGRGGG/QERPSIPDR QKNQGRGGGNNPLSGRGKVKAITILLII
5308	13359	A	6151	20	415	
5309	13360	A	6152	24	156	SSFVMELCPELVGWSH*LQE*SRGPLR *RTHSSRYMVKRQE
5310	13361	A	6153	128	880	
5311	13362	A	6154	310	719	LRTYPTIRGPVREEKWGYVQTESRSVAW AGVQWHCFTELRGFLVSLTSRMKPRTL AVSVPALKVARLEFVSSDVQRWGFHHV GPAGLELLTSSDLPVSASQMAGITGTRH RAWPWEHVYMDVFHFLKQTEGNLLDL
5312	13363	A	6155	1	169	FFETGSCSVAQAGMQCSDHGLQPCPPG \SWDPPALASQSAGITSMSSHHPKLF

5313	13364	A	6156	525	972	NHLGGFKQIMPRLHPMPMKSFLGV SAR QLYFFFFFETESHIVQAGVQWRDLGS LQPLPPGFKQFSCSLSPSSWNYRHTLPRP ANFLYFLVETGFHCVAQAGLKLSSGNL PALASQSARITGMSHHARLAVVFFKALL SSSRTRI
5314	13365	A	6157	300	500	DGLCSKQT*NGVPSITNPIKTANQHOGK KQHPIQGNRTAPSSSVSYMKRCELLPKG TGLEVVRESG
5315	13366	A	6158	1	1889	MGLLQGLLRVRKLLL VVCVPLLLPLPV LHPSSSEASCAYVLIVTAVYVWSEAVPLG AAALVPAFLYPFFGVLRSEVAAEYFKN TTLVLGVICVAAAVEKWNH KRIALR MVL MAGAKPGMLL CFCCTTLLSMW LSNTSTTAMVMPIVEAVLQELVSAEDEQ LVAGNSNTEEAEPISLDVKNSQPSLELIF VNEDRSNADLTTLMHNENLNGVPSITNP IKTANQHOGKKQHPSQEKPOVLTPSPRK QKLNRYRSHHDQMICKCLSISYSATI GGLTTIIGTSTSLIFLEHFNQYPAAEVVN FGTWFLFSFPLSLMLVVSFWMHWF LGCNFKETCSLSKKKKTKREQLSEKRIQ EEYEKLGDISYPEMVTGFFILMTVLWFT REPGFVPGWDSFFEKKGYRTDATVSVFL GFLFLIPAKKPCFGKKNDGENQEHSLG TEPIITWKDFQKTMPEIVILVGGGYAL ASGSKSSGLSTWIGNQMLSLSLPPWAV TLLACILVSIVTEFVSNPATITIFLPILCSLS ETMHINPLYTLIPVTMCISFAVMLPVGNP PNAIVFSYGHQKIDMVKAGLGVNVIGL VIVMVAINTWGVSLFHLDTYPAWAR VSNITDQA
5316	13367	A	6159	41	570	SLHDSTADSIRTTCCQGVISTLKAHYLRRT FQHILEAADGEDPSYIKEFWRNYSIMDA VDMAIAWEEKPALMNSMWKKIWPEC VQAQRFSQADNIAQLQKNIVTLARNVAF EEVAEAAVDQLLSHEEDLSNEELMRLE QELAVGEEEREDGPWALWQLTTGRLSA ALSHFEAGL
5317	13368	A	616	363	412	
5318	13369	A	6160	3	367	HASAHAFGQLSCVSKLMRDVCGQPCFSP RGMV/LYLQWGRKYSRIGNSSWQIKEK VWRFSTAFCSVNEWKFADILSMADHLK KCSYNVVEKREEAIPLPCMCTRELTK GRSLRSVLKPVL
5319	13370	A	6161	74	295	AEDKSQMLLDLRWSYIRTSSSADRSHA SGPRIAHKWSTVDRNRPRYDSNNELAEK EQLS*ICSICSRVFFKA
5320	13371	A	6162	32	342	
5321	13372	A	6163	184	556	
5322	13373	A	6164	251	1133	PND SKRLILFRTPWQCLSVRTVARRCT ALTFIASEEKVLVADKSGDVYSFVLEPH GCGRLELGHLCMLLDVAVSPDDRFLTA ARDEKMRVSWAAAPHSIESFC LGHTEF VSRISVVPHSARALLSSSGDGT LRLWEY RSGRQPALLSPWPVCRSSVDPQAPQKFA ASRIAFWCQENCVALLCDGT P CGLHLPA GRPQTAVGVQAAAGVPAPSVGRGFRGD PGAVGAPGLARKPPWCSYRHVG DQWQ SVPESTVLKKVSGVLRGNWPMLERLCR RRRQLSAVSYKAHVPTT
5323	13374	A	6165	1	391	APMAGCLSFYYLIQQGDDKGFSLYTRDG AGLYKEIWKADRPGNAAWNLAEGEFNA PYPMEVIFEDAFNGPKGGYVALDDISFSP VHCQNQTELLFSAVEASCNYEQDLCNFY QDKKRPGWTRVKGKPNML



5324	13375	A	6166	3	1459	KLPPPPGECTFEQDECTFT/AGEKKPEQL AQEEGÆETPTSYTGPKG DHTTG VVSSH ASECPFGLNSDALLPKKICSLVLLTSL AASADSGTMLLRWGCLKSKIKMSVGLV PSEISLLGLQMAAFLHMAFLCQCTPD MYLLLTVGNRNHGRQKQIKGALLYWTF TTCRHCARNLNILSTTCKDKVGEFAKLS KIELLEATEKSIGPPEMHKYHCELKNLRE KEKQLEDLLATKIASKVAKLGILLGMPT LEIGGKEGGGWGTGYWLR AEKEDGDYL CIEGSEGLNTEKIVPVMQERN SININKKD VHSETPAKGHQLQRPKVDKSMKMGRN QHKKAENSKTQITSSPPKDPKSSPAEQT CMENEFDKLTEVGFRRWAITNSPELKED VLTQCKEAKNLEKRLDKLLTRITSLEKS MNDLMELKNTGRELCEAYTSINSRIDQV EERISEIEDQLNEIKQDDKIREKRVKRNK QSPKKYGT L
5325	13376	A	6167	1	393	
5326	13377	A	6168	1	1137	
5327	13378	A	6169	1	1793	MAETAVINHKKRKNSPRIVQSN DLTEAA YLSRDQKRMLYLFVDQIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDEKGYESFP WFIKRCATAVGRQRT HADKERGAREKG GEKKAKAKKTS GTRKRGGRERKKKGE QEGKDGQRNAQTKGEKRQPHKANTPPK TLQQRKEKKTGDSHRRKKLFKESEKVL SQEWEHDFVIETMATGARPQLLFSAVEA SCNFEQDL CNFYQDKEGPGWTRVKVKP NMYRAGDAHTTGLGYLLANTKFTSQPG YIGRLYGPSLPGNLQYCLRFHYAIYGFLK MSDTLAVYIFEENHV VQEKIWSVLESPR GVWMQAEITFKKPMPTKVVFMSLCKSF WDCGLVALDDITIQLGSCSSSEKLPPPPG ECTFEQDECTFT/AGEKKPEQLAQEEGÆ TPTSYTGPKG DHTTG VGYMYIEASHM VYGQKARLLSRPLRGVSGKHCLTFFYH MYGGGTGLLSVYLKKEEDSEESLLWRR RGEQSI SWLRALIEYSCERQH QIFEAIRG VSIRSDIAID DVKFQARP CGEMEDTPQQ SSGYSED LNEIEY
5328	13379	A	617	540	820	KIGPQPGQHSKTL SL*TIKKKLARCGGTC LWSQLLGR LRWEDCLSAGS*GCGEL*SY HCTPAWVTERDLVSKTQKNRAITGKLLL DVL SLLIR
5329	13380	A	6170	2	392	RNKKQGYP AFHVSTFFYPK*KSGGYQA VKRWTKGVNLFEQEILVPIHRKVHWSL VQYLQDESKTKRNSDLNLEWTHHSM KPHEIPQQLNGSDCGMFTCKYADYISRD KPITFTQVSEDPLHPFTCY
5330	13381	A	6171	2	386	MNLLVERNKKQGYPALHVFSTFFYPKL KSGGYQAVKR/ WTKGVNLFEQEILVPIH RKVHWSLVVIDLRKKCLKYLD SMGQKG HRICEMVLGYLQDESKTKRNSDLNLE WTHHSMKPHEIPQQLNGE
5331	13382	A	6172	3	162	
5332	13383	A	6173	3	407	TRRADPLRTWRWHNLLVSFAHSIVSGIW ALLCVWQTPDMLVEIETAWSLSGYLLV CFSAGYFIHDTV DIVASGQSASLLEYLV HHVMAMGAFFSGIFWSSFVGGGVLTLL VEVSNIFLTIRMMMKISNAQDHL L
5333	13384	A	6174	13	367	KYLFFFLKDHTKVGKRRMSIRLHQNLGR GRTKSC LKKLVAGANCRDQDDPSPRNQ QPRSATFRPSPNRCH*IPQ*PYSACPHPG SGGQFRSLRGLIVEYRSSERHISYRRYAG LCEY

5334	13385	A	6175	3	413	AAIEELCGRQARAEAVRGLRGRGLR/ WPLPWHPPAPAHGAPLARPGARARRSE KPPSEKPRLLRSSPRAQEEGPGEPPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSGKCRQAPARHL
5335	13386	A	6176	2	445	RPLPWHPPAPAHGAPLARPGARARR/CE KPPSEKPRLLRSSPRAQEEGPGEPPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSEGAAKLLDTFEYQ GLVKHTGGCHCGAVRFEVWASADLHIF DCKYRNYI
5336	13387	A	6177	2	265	FLMESRSVTRLECSSTITAHCNLCLPVSS DSAVSASQVAGTTGMRHHAQLIFVFLVE TGFHHVGGDGLHLLNIVHLP RP PKVLG LQA
5337	13388	A	6178	1	394	WLVGFGFGFFEIESRPVAQAGVQWRNL GSLQSPSKFKRFSFLNLPSSLDYRHTPPS LANFLYLVMGFHHVGGDGLLELLTS PTLASQSAEITGVSHRTQPRSAILLQSQSS LLPLLRTFISSVPVTE
5338	13389	A	6179	3	1306	HEISLGAICAVLLVIMGLFATRCNREKKD TRSYNCRVAESTYQHHPKRPSRQIHKGD ITLVPTINGTLPIRSHHRSPPSSPTLERGO MGSRQSHNSHQSLNSLVTISSNHVPENFS LELTHATPAVEQVSQLLSMLHQGQYQPR PSFRGNKYSRSYRYALQMDKFSKDS GRGDSEAGDSYDLGRDSPIDRLLEGF SDLFLT DGRIPAMRLCTEECVLGHSD QCWMPPLPSPSSDYRSNMFIPGEEFTQP QQQHPHQSLLEDDAQPADSGEKKKSFTF GKDSPKMRTLGDSTSSLLSEMSSVFQR LLPPSLDTYSECSEVDRSNSLERRKGPLP AKTVGYPPQGVAAWAASTHFQNPPTNCG PPLGTHSSVQPSSKWLPAEIEPENYEED DFDNVLNHLNDGKHELM DASELVAEIN KLLQDVRQS
5339	13390	A	618	45	364	HHLHFLQRHKSQMRTMNTGLFEILTMLL TTMNLVDIFHEKADVVDMAYNADFDEY LNCTDRMDIKYVVQLLKEEQASHHH*D TECENA*ARWAARMTHIFLPMDYN
5340	13391	A	6180	21	375	GVSTVGIGRGRLELWAPPEKYTPPGRPS HPLWLWGEGGGSIRREIDTTSSPHQVPV QSWFDDMGNTLLNLIPIFEELNGAKDV YTSL/GAAAGPLDCPAFKRRPFHYGTFFH CAFTI
5341	13392	A	6181	3	471	HASAHASAHQVYVLKRPYVDEFLRGMG ELFECVLFTASLAKYADPVTDLLDRRGV FRARLFRESCVFHQGCYVKDLSRLGRDL RKTLILDNSPASVIFHPENAEPVQSWFDD MAYTELLNLIPIFEELSGA*DVYTSL/GAA AGPLACPASKRRPSQ
5342	13393	A	6182	1	1953	
5343	13394	A	6183	3	240	
5344	13395	A	6184	1	462	
5345	13396	B	6185	1	546	MVKPLSLQMVPLHSSLGNRGLSENKNT GVWESAASCCMAGCGGPADGICSEPLG HDQDGRAQSLLLWAKLTRKDRFSSQPR SIPSFDFLKAKALAKQRETIWEKVFSFQ AGVLSPPGSATLLSTLEQGAVGQKPPSV PCLMGLFVEHLTTWQLTSSVQASKSKRE DSPETVIAKQKAQSF*

5346	13397	A	6186	1	1846	MWSVPCLENDVLAWTVLCLAVKIKM NKLRSFRRKKDVYVPEASRPHQWQTD EEGVRTGKCSFPVKNWQRLFIQSLAMR SLSASCCCHQPAVYSSHGTAQVHAKGCL QAHHRACCPSCTSPAAAAIFAAATPDG PLLPSRPLVNLIEKSQALVRETLTSQASA PNSGRAGQPVTVCLS/GANAAWRPALEA PVDITGLWPETQAVSQCLG*EHSACLER KQKREKECGVTATFDASRTTFTREGSFR VTTATEQAEREEIMKMQDAKKA\QTSV N*TAFPRGRTSTTSTGRLWLMGRPASLA RGMSVWMAAAGLSAVITSWTRPSRRTS VCGVGVTARPATPSQAPLTLMTSAEL*R MFVGNNTSMGTGPSRRPGPCQPAPSCI TSGVLRGT/SAPER/PPCPGPTSEPLVI/VA PASAGATAHGVTAAARSVAEVTSPAUCS APSTMRTPTTCASASHGQLTGVPAILTL ARRPSAGLLGWWRWLWCMGPQGCS/SP LGPCTRGLQSPPRMAGRQGHGHPAQPP VEEAPSPAPCTASRLTGPASRRPWRRLS VPGCLGSPLPFRPVTCSAVQPGARSPGES VLSVVALASGSGALLAGVKGVLCIPQR APWKTGHL
5347	13398	A	6187	1	1542	
5348	13399	C	6188	539	1039	MPYPAPNPVVGITPSQMVANXFGTAG HPQAAHPHQSPSLVRQQTFFHYEASSAT TSPFFKPPAQHLNGSAAFNGVDDGRLAS ADRHTEVPTGTCPVDPFEAQWAALENK SKQRTNPSTNAFLHVTYRRRLKLNFKQ SLWLCILSIPDREQGVAVKGAKQTLCPD*
5349	13400	A	6189	303	2235	VKIKMNKLRSFRRKKDVYVPEASRPH QWQTDDEGVRTGKCSFPVKYLGHVEVD ESRGMHICEDAVKRLKATGKKAVKAVL WVSADGLRVVDEKTKDLIVDQTIKVSF CAPDRNFDRAFSYICRDGTTTRRWICHCF MAVKDTGERLSHAVGCAFAACLERKQK REKECGVTATFDASRTTFTREGSFRVTT ATEQAEREEIMKMQDAKKAETDKIVV GSSVAPGNTAPSPSSPTSPTSATTSLM NNPHAIPIRRHAPIEQRLAQGSFRGFPALS QKMSPFKRQLSLRINELPSTMQRKTDPI KNAVPEVEGEAESISSLCQITNAFSTPED PFSSAPMTKPVTVVAPQSPITFQANGTDS AFHVLAKPAHTALAPVAMPVRETNPWA HAPDAANKEIAATCSGTEWGQSSGAASP GLFQAGHRRTPSEADRWLEEVSKSVRA QQPQASAAPLQPVLOPPPTAISQPASPF QGNALTSQPVVGVVPALQPAFVPAQS YPVANGMPYPAPNPVVGITPSQMVAN VFGTAGHPQAAHPHQSPSLVRQQTFFHY EASSATTSPFFKPPAQHLNGSAAFNGVD DGRLASADRHTEVPTGTCPVDPFEAQW AALENKSKQRTNPSTNPSSDLQKTFEI EL
5350	13401	A	619	112	322	NSLIAGYILVYVKTPRTQKEKSFLKVLST YIKVAKYKV*ILKSITFLFTTKEYSKINIK MPFTTPFTTPN

5351	13402	A	190	795	2728	GLSNFFRGRVQPLLQFKILIYHRLEY WWASNPQTPHLGQAVKIKMNLKRSFR RKKDVYVPEASRPHQWQTDEECARTGK CSFPANDLGHAEFFESRGMHICEDAVKR LKATGKKAVKAVLWVSADGLRVVDEK TKDLIVDQTIEKVSFCAPDRNFDRAFSY ICRDGTTASHGFCRCFMAVK/DTQGERV EHMQ*ICA\FAALFRRARQKREKECGVT ATFDASRTTFTREGSFRVTTATEQAEREE IMKQMQDAKKAETDKIVVGSSVAPGNT APSPSSPTSPTS DATTSLEMNNPHAI HAPIEQLARQGSFRGFPALSQKMSPFKR QLSLRINELPSTMQRKTDPIKNAVPEVE GEAESISSLCSQITNAFSTPEDPFSSAPMT KPVTVVAPQSPTFQTEWGQSSGAASPG LFQAGHRRTPSEADRWLEEVSKSVRAQ QPQASAAPLQPVLPQPPPTAISQPASPFQ GNAFLTSQPVVGVVPALQPAFVPAQSY PVANGMPYPAPNVVVGITPSQMVANV FGTAGHPQAAHPHQSPSLVRQQTFFHYE ASSATTSPFFKPPAQHLNGSAAFNGVDD GRLASADRHTEVPTGTCPVDPFEAQWA ALENKSQRTPNPSTNPFSSDLQKTFEIE L
5352	13403	A	6191	1	1825	MNKLKRSFRRKDVYVPEASRPHQWQT DEESVRTGKCSFPVKYLGHVEVDES MHICEDAVKRLKAQRKFFKGFFGKTGK KAVKAVLWVSADGLRVVDEKTKDLIVD QTIEKVSFCAPDRNFDRAFSYICRDGTT RWICHCFMAVKDTGERLSHAVGCAFAA CLERKQKREKECGVTATFDASRTTFTRE RSFRVTTATEQAEREEIMKQMQDAKKA ETDKIVVGSSVAPGNTAPSPSSPTSPTS DATTSLEMNNPHAI RRHAPIEQLARQGSF RGFPALSQKMSPFKRQLSLRINELP/SPT MQRKTDPIKNAVPEVEGEAESISSLCSQ ITNALSPEDPFSSAPMTKPVTIVLAPQS PTFQGNWGHSSGAASPGLFQAGHRRTP SEADRWLEEVSKSVRAQ QPQAPAAPLQPVLPQPPPTAISQPASPIQ GNAFLTSQPVVGVVPAHMQPAFVPAQSY PVANGMPYPAPNVVVGITPSQMVANV FGTAGHPQAAHPHQSPSLVRQQTFFHYE ASSATTSPFFKPPAQHLNGSAAFNGVDD GRLASADRHTEVPTGTCPVVPFEAQWA ALENKSQRTPNPSTNPFSSDLQKTFEIE L
5353	13404	A	6192	164	282	
5354	13405	A	6193	193	274	
5355	13406	A	6194	3	247	FFFFNRFIAALFKITKIWKQPRCPSVSE WDKLWY/YTIEHNSALKRNLSCPKM RKLKSILLSKRRQSEKATYITATM
5356	13407	A	6196	57	361	GLTMDTQKDVQPPKIQQPMIVICGECH/ TPENEIKSRDPIRCRECGYRIMYKKRTK RLGRFLMARWNAGEFQREWSPYTLGF GSLPHFWIVCYSFSIFALQ
5357	13408	A	6197	2432	3682	NSLILFFFFRQSLTLECSGVISAHNHL HLPSSSNS/P/ASAS*VAGITGMHRHAWPI CIFLVETGFRHVGQAGLELLTSGDPPAPT SQSM*ATTSGLILLLSKILFPFHSTKVFK* SCPS*KILKEENCVINEWFNSESYTSKE KNNLVPNAC*EITM*VATNCDFT/SLL*R SENYPKLFHNNETTSQKIHLKIKISRPATS GQWILFSLVWWRARKG*GILMIHNGILY *TIC*IKLHRLP*GMDYPNQPD/MKSGWD KRMSHTL*F*GKEIVDFQNNQKNLSTL YLSVQE**HEEFFFRDLKYNKPGSTIKSL VSF/HSLTLFFFFFEARSHSASQAGVQW GNIGSLQAPPGLKRSSYLSLLSSWDYRR VPPHPANFCIFCR/GWGFVSPCCPGSSG

						TPVLKWRANLPNC
5358	13409	A	6198	1	632	KYRQDLTVPPGYCTGEQGAGGRPGETEP WLRPPALLPS\DFLLCASSSGAVLPVRTQ DPFLPYPPRACPGQQAASSATTSRPCPEV KEAGWGSPGHLARHALSHVPPPARVV VLRRERWHFCGDRVLLGSRALRERHLG LMGYQLL/PGEWPWPGPWRLTPSLRVT CRPLLSQLPFEELESQRG/LCPQLKSYL OKLQALGLRWGPEGG
5359	13410	A	6199	2	313	EV RVYDLTQYEHCPDDVLVLGTDGLWD VTIDCEVAATVDRVLSAYEPNDHSRYT ALAQALVLGARGTPARDRGWRLPNNKL GSGDDISVFNPPGRARQLLLRG
5360	13411	A	62	994	1108	
5361	13412	B	620	180	372	MAKDAGLIEANGELKV FIDQNLSPGKGV VSLVAVHPSTVNPLGKQLLPKTFGQSNV NIAQQVVIX*
5362	13413	A	6200	401	531	
5363	13414	A	6201	1	864	
5364	13415	A	6202	9	811	YIVTTLRQLGTRGTPGRFIYTALNEPTID YGFQRLQKVIPRHPGDPERLPKEVILKRA ADLVEALYGMPHNNQEIIILKRAADIAEA LYSVPRNHNQLPALANTS VHAGMMGV NSFSGQLAVNVSEASQATDQGFTRNSSS VSPHGYVPSTTPQQTNYNSVTTSMNGY GSAAMSNLGGSPFTLNGSAANSFYAIVP SSPTMASSTSLPNCSSSSGIFSFSPANMV SAVKQKSAFAPVVRPQTSPPPTCTSTNG NSLQAISGMIVPPM
5365	13416	A	6203	299	826	LEGHCHNLSSLQISASLGFKRFS\CLTSPS SWDSRNTPPCPANFC/EFLVENGFFHHVG QAGLKLLTSSHPPSMASQSAGITGMSHQ AWPTFPVLINFNSLKMCRMCPMATHLG QCPSREYKIHSCSCAELEGQAHHEPDVG VTISIRKCPVPNALWWKELVPGAQGHGP HLEPEGLG
5366	13417	A	6204	1161	2627	RSDATNWGLSHLCFWFWFLRLSFLFS LPRLECNVTISAHCNLFCLLGSSNSPVSA SLVAGITGTRHHAQLI/LLYFFFFLVKTRF HHVDQADLELLTSGDPPTSASQSAGITG VSHCAR/LSHLCFLPPCLLFY/CYFIYVML LCY*WSLFLVAQVGQVQWHDLSLQPLPP GFK*FSCLSLLSSWEYRRSPPHPANFFFFF FLRR/RSRFVAQVGQVQWCNLDLQPPPPS FKHFSASACRVAGITVACHHAWLIF/IFL YF**RQGFTILARLVLS*PRDPPPSASQS AEITGVSHHAWPILFIYLRQSL/DSVAQA GVQWYNLGSLLQPPPGFKQFSCLSFLSS WDYRRVPPCPANFLCF**RQDFTMLARL VSIS*PHDLPASASQSAEITGVSHRAWPIF CIFI/CFFEMESRSVAQAGVQWRDLGSL QAPPPGFTPFSCLSLPSSWDYRCPPPRPA NFCIFSRDGVSPWSLSPDLVICLPRPPKV LGLQA

5367	13418	A	205	24	617	DPVSTKNTQMMWWCTPVVPATQEA AREFLENFLSPSTGFECSSLFFFFFFF GSHSVTQAGVQWCDHGSLQPQPGRKP SSPLCLSSWDNH/RPANFFYKTTVKSP E/FLQLAVVGCFA CARVYSAFQTEKPQ SSSVGLHRSSFEISAFSHFPI*VFVP WSPPLQYEEPTLSFPSSSIPHCPS TSPND
5368	13419	A	6206	239	1789	ATAPGQIFFFFFLRWSLTLSRLECSD MAHCNLKLLGSRNPPTSAS*VAKDY STHQQAWLISYFFFIETGFRHVAKAG LKLTTSSDPPAPASQSAGIKRVRHV WPSFSYVNKHLFSRGLRALSYKLG*Q MQLFFNLSILSHDFVAVPSCHDHLR SPETCH**CSVTHLEGLQVHF*L*DV IPVLIQGVSLNSSSSSFLEESQ*DN LILSREWGSNSLSYASKVIM*HLT ATSSCDTELASASV*VLS*PL*LR LSR*SF*TFLWLLFRDRIIHFCLFL KRWSLDSVTQAGVQW/RNHGSLQPQ TPGLGSDTESFFF*ARVSLCHPGLE VQWCNHGSLQASNS*AQVILPP*LPN *LRLQACTIMPG*FCF*ILVEMGLA MMPSLVSNS*AQ/CNHPVLASQSSG ITGMRHCARLGRES*FDPLH*TV CPCNFFFLRRSFALVAQAGVQWR DLSSLQPLPLGFR*FSCLSLLSSWD YGHPSLRSANF/CVFLVEMGVSPCW TGWS*TPDLR
5369	13420	A	6207	2	208	LEHALRPSSKMLLKCSQGGTPOEPP NPRIKRASSLNFLNKSVEDPTQHGG QVFLSALSAPAPWTSPH
5370	13421	A	6208	1	419	SAFSVAVTKKLPTGAACPIKFTKIL MNEGGHYNASSGKFRICGVLGIIYF HLAHITLGNKDLAIGLGAQRPSTAS GPLMPNTGNDHVGSGSTILALKQGDE VWLQIFYSEQNGLFYDPYWTDLSFT GFLIYADQDDPNEV
5371	13422	A	6209	756	966	
5372	13423	A	621	39	460	GVYLKLSINTVGKDKEKVRRHHPIT TQLQCGIQGHNLWVVTAAEIRSFHLS PSSRRFKSIFCHVTRSGKSMQMFTF PEKKNDFSGCPVRPRGRGRGEGAVR SAGRRG*ARAGAGPGGPGRGGVPAL GRVAPGLVPN
5373	13424	A	6210	24	365	PTEY/ENL/FPCIKEAF/VVEEWVKET LAVL/WPAKQYFPVTPIEERILMEEG KAFPPSRSTAKQKLDGNPVSPTPVIG LSPTPNKEEKQPDWPLEPTGHLDGAR DTAGPSWLHHRF
5374	13425	A	6211	32	188	KIFFFFFFLPPQFKILFKRPTGLRV PGKGRRALGGSPKGAKKAWPTRRLP SFNGYLEGSSNGASTESPGNFVPGKT LQPPGVELGRGRWTAQQQPSRPVAL GA*KL
5375	13426	A	6212	122	339	EKGFWFCAQGGKNLPGGNSLEPSA SGLKEIFGLNLLNWE*RGGPKTPGN FWIWKGGGV*PLWPGWG*NPGL
5376	13427	C	6213	56	118	MKALPSSQSCGPTSVNSPFH*
5377	13428	C	6214	345	410	
5378	13429	C	6215	7	438	
5379	13430	A	6216	2	80	
5380	13431	A	6217	3743	4059	GCAVFFFFFFFLRWSLLPRLE/CSGT VSAHCNLHLLGSSSSRAAASQVAGTT GMHHHARLIFVFLVEMGFHHVSNS*P QAIHPPQRPKVLGIIGRDNRLGLME WSF
5381	13432	A	6218	3	402	DTMVHLTPVEKGAVTALWGKVNVD EVGGEALGRLLVGYPWTQRFESFGD LSTPDAVMGNPKVKAHGKKVLGAFS DGLAHLNKLKGTATLSELHWDKLHVD P*NFRLLGNGLD*MLAHKFGKKISP NQKGLG

5382	13433	C	6219	295	618	MARKCSVA GPGCTWDNLKGTFAHT EVSLHCDKAAPWIPEELSGSWGNAWS CVLGPFTFGKRISTPPVAGLPNQENWLA WCWLNALGPTS NHLSLAFLAGPISN*
5383	13434	A	622	138	320	GFFQGAQKKRVHPKGGPKSRF*KFFRA GPGGSIWNPHHLGGPGGPNCWPPGFQTP PNNPG
5384	13435	A	6220	2	337	IKKAL*HE*LREKKKSPIRTSQSSKAP*NL PRSSSSSESSNNYQLL*AHKLQVKEMG KLETPNLPLLSQKVAEPLNQPTSSKIET LIKPPYHPEKSYGHDEVTAKFSA
5385	13436	A	6221	1	2349	
5386	13437	A	6222	2	1802	
5387	13438	A	6223	5175	5804	IANNKDALRKTWNPKFTLRSHFDGIRAL AFHPIEPVLITASEDHTLKMWNLOKTAP AKK*EYSTLTLEFYFK*HLSILLYSI
5388	13439	A	6224	3	115	HETDYHKQPWQGEISGIVSTESQ*WGLG GGEVKVKWE
5389	13440	A	6225	2	28	TIADRELRYSEDEGGRRRGE*REEGEA ARRKRVAKQVGKRANEERKTEERWGD REGRRERRSEEMEVS GKERGHATSGREE KENTG*GPRAEI
5390	13441	A	6226	1	236	RTRGRTRGSTHAFVRQLMQRNLDTGPI MAGHDNQLQQKENSTPDSSLPETSNEKH ISPENMSLKT LRNSNP*DL YDEI
5391	13442	A	6227	3	178	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWIRCSAEALGNRS LI
5392	13443	B	6228	1	1050	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVERQKYKTLES AFLAPAILILL GVVMFMVSVFIGVLASLRDNL YLLQAFM YILGICLIMELIGGVVALTRNQQLLRQ QVLSHTLGCADLSDGPGSGPVKMFMGV PVIPAQPPELLASLRLSRGYGLVLSWLEP RYEKMISGMYLGEIVRNILIDFTKKGFLF RGOISETLKT RGIFETKFLSQIESDR LALL QVRAILQQLGLNSTCDD SILVKTVCGVV SRRAAQLCGAGMAAVVDKIRENRGLDR LNVTVGVDGTL YKLHPHFSRIMHQTVKE LSPKCNVSFLLSEDGSGKGAALITAVGV RLRTEASS*
5393	13444	A	6229	3	250	SLCQPGWSAVADSRLTASSISQFTPFSC SFPSSWDYRRLPPRAIFLYF**RRGFTVL GWSRSPDLVIRLSRPPKVLGLQV
5394	13445	A	623	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
5395	13446	A	6230	135	466	GIDTILTLNQON*SLKTRQ*FTLIIF/IFFFLL RWSL/DSVAQAGVQWRDLGSLQAPPRG FTPFSCLSLPSSWDYRRLPRPANFFYF** RRGFTMLARMVISIS*PRDLPAEFL
5396	13447	A	6231	593	1030	KCNNSSLNMNEFKFNPFCKMPNSSLIPL GLSAIKVSNKTNT*NMITI*ILWIIFFFFLI WSL/DSVAQAGAQWCHLGSLQAPPEFT PFSCLSLPSSWDYRHPPRA/NFFVFLVE RGFTVLARMVISIS*PRDLPALASQSLWII L
5397	13448	C	6232	17	145	MHRDLFFNIQFISSVYTSLYLLEKCILCKF SIKTLGLIHTMW*
5398	13449	A	6233	82	377	IPGLKRSLHLSLLNSQSCATLPSYFFFFFF FFFYFLERRDLAMLPRLFSSSPGLK*SLH LGFPEHWDYSHEPPSWLFFFIFFNNRRVF LLNVKIFYH MV

5399	13450	A	6234	281	1102	RMNIFPWG...LGHSSQATLTGPPGVC SPPNPRQNKGRPSLTWKS WACGMFSICF FCSVTKTFLKLGP HQRLKSSKTTYAT*DI LKRKVKLCECRPSFLPFFTAWKPLRICW GVAEEGLSSLKEGMLVDSLQPRKPRRC LPHNRLSTAPTFDPESITDPVTLHPLCP KEQRDPPELPSLGEAPWR*SLPFLHSTPC SLKECETMKPHMCRSPCRGVLTPSATCA QWPDQGWGPVIGAPFSDEVTV CNSQLL LPEAPACSGNQCLS WFKK
5400	13451	A	6235	2	260	LSLTQAGVQWCDHSSLQP*RLLSNWDH MHAPSCLAIYFF*ETTSYIAQSYLKHLG SSNPPTSASQGTAITGISHWARLDTSQFG H
5401	13452	A	6236	3	224	KSCPGTTPGNGAGASLEDLWWSRAGR GGTSKPCPLSAGCPLAFGP PARLTGASM PPLSALNG*ERRKRQ PGL
5402	13453	A	6237	3	307	EAWRMSWGPP*ER*PLPSP*GVCSSC/AP PLPSVSAGLGEPRPPDVEDMSSSDSDSD WDGGSR/PFTISTPRPRLGCLLH AVLFL ARW/PSLPSV*PRTPHCEH
5403	13454	A	6238	265	315	
5404	13455	A	6239	359	785	GNPSWSFPKAMDSPSLRELQQLLEGTE C/GDPCPEAW/PGMSWGPP*ER*PLPSP*G VCSSC/APPLPSVSAGLGEPRPPDVEDMS SSDSDSDWDGGSRLSPFLPHDHLGLAVF SMLCCFWPVGIAAFCLAQKVSLCVGLG GDWA
5405	13456	A	624	60	548	APSPDAMGHFTEEDKATITSLWGKV NVE DAGGETLGRLLVVPWTQRFDFS FGNLS SASAIMGNPKVKAHGKKVLTSLGRCHK STWDDLKGTF AQLSELHCGQACMWD ENFKLLGNVLVTVAIPFSGKEFHPWR LAGFPGQKD*LGVIASALVPSRYH
5406	13457	A	6240	3	277	
5407	13458	A	6241	8	370	RLGEEKAA TG VVVHGLDCFFSPRAPTRP GSRLSQDPPGCEI*NPSWSFPKAMDSPSL RELQQLLEGTECEDPCPEAWAGIELGSP FKRDSLRCRVPEGFCSSCSPPLPSVSAGLG GTKAP
5408	13459	A	6242	1	351	KTGSHSVAEAGVQWHHPSSL*QPPPGFK QSPHLRFKPCWDHRRTPPCGNFFDLR* RWGSHHVAQAGLELLNSRDP PASTSQA RITAMSHRARPVSTFLSTSTSCPVLSTFH RSLI
5409	13460	A	6243	2	1036	SHTLSYLVKELEVRMDLKAKMPDDHAR KILLSRINNYTIP EEEIGSFLHAINKPNAP IWLILNEAGLYWRAVG NSTFAIACLQRA LNLAPLQYQDVPLVNLANLLIHYGLHLD ATKLLLQALAINSEPLDLF*AGEMAYL ALKNISGALEAFRQALKLTTCPECENSL KLIRCMQIYPFLYNITSSVCSGNCREKTL DNSHDKQKYFDNSQSLDAAEEEP SERGT DEDPAFVSVENSGRDS DALRESTVDES HGSDEMENSDETKMSEEILALVDEFQQA WPLEGFGGALEMKGRRSRLTRNTGAEE RSPGWKWPETLAMETA EVKMMKQONG LHSRSNV
5410	13461	A	6244	31	372	KRVRLGWVAHTYNPSTLGGQGRIT* TQ EALTSLDNIVRTHLYKKFYKLAQVWAC GQTCLEGGKEGYVNMSNVHTGGQGDPC GLLGSLSLGRIFGCTWDSYRHAAIAMIFG KLK
5411	13462	A	6245	816	929	DRVLLYCPGWNAV V*TWLTVASASSAQ AILLPQPCLA
5412	13463	A	6246	3	119	RRGLAVL PRLVLNSWPQVIFLPHAPKVL GL*AQL



5413	13464	A	6247	2	285	RSVLCECRNS*VSIWGNRLYLVE MYPI MKVEKWAGCCGSL*SQHFGRLRGVDR LRSGVQQPGQHQDETPSLLKMQKWAGV WWWLPVVPACSL
5414	13465	A	6248	3	437	RPRRLFFLRWSFALVAQAGVQWHDLGS PQPPPPGFK*FLCLSLPSS*DYRNVPPHPA NFVFLVETGFCHVGQAGF*LPTSGDLA WASQSAGITGVSHLARQAASDFNSRDRR GSQIPSNSQDANQNMENLNLKDFPIVT CNT
5415	13466	A	6249	3	459	VLITANLIPAKQCFDCNFLSTFSSVTTEAF VFLCLLVTCVTCMNFLFIHFHFSRRVV FFLPILGAPCKMGILFMIQTFLPSLNIFQF GSKCIQQYRILNFYAM*SVTLFLWPIVYK YSFSTISRPTLYNRSTLLPRKDRWKGAR QQTPQ
5416	13467	A	625	32	452	
5417	13468	A	6250	2	342	FKRQSLTLTPRPEYSGTHAHYNLKLCS NPPSSASQEAGTTGT YHDT*LIF*FFVETG SPYVAHAGLELPVSSNPPTSASQSGRIID MSHHIRKTALLSGKEWTRPPHTLL
5418	13469	A	6251	2	207	ARGDPESTVAEFTPTIPHCSMATLIGLPI KVKLLRSLPQSFKVSW*APGVRPGIEGL LLRMGTGRA
5419	13470	A	6252	1	90	RWLIPISPAL*EAEAGRILLETRSLRPAWS T
5420	13471	A	6253	3	290	RQGFPLCNHKGTVTADLQPLPPGLK*ISH LSLLSSWNYRCTPPHPADF*FFVERRSHY VA*ACLELLCSSDLPALISQRVGITGMST TPGPICLL
5421	13472	A	6254	2	378	AGFTAHVILNHPGQ*SAGYAPVLDCHT AHIACKHAELNEQIDRRSAKLEHGPNF LNSGDA AIDDMDTVKPMCVESFSHYSPF GRFADRD MRHTVAASVIMALDKKAAV AGKGSNSGQKAHKAK
5422	13473	A	6255	3	735	NASGTTLEALDCILPPTPTDKALRLPL QDVYKIGGIGTVPVGRVETGVLKPGMV VTFAPDNVTTEV*SV*LSHEALS EALPG DN/VGAFNVKNVSVKDVRRGNVAGDSK NDPPQEAAGFTA HGILNHPGQINAGYA PVLDCHTAHIACKY AELKEKIDR\RS GKK LEDGPKFLKSGDA AIVDMVPGKPMCV SFSDYPPLGRFAVRDMRQTVAVGVIAV DKKAAGAGKVTKSAQKAHKAK
5423	13474	A	6256	328	621	PVFLFCFVLFETESRVAQAGVQWRDLG SLQALPPGSTPFSCLSLPGGWYRCPPPC SANFFCIFS RDRVSPC*PGWSQFPDL MIR RARPLFLKNRKL
5424	13475	A	6257	1	1245	
5425	13476	A	6258	1	248	FDPQPIHIVYVPSHLHHMLFELFKV*YFTI IEILPFKKGLTSYIFISFIHRKTEASISFPK NASSPPKRKKLYSQCLTKYM
5426	13477	A	6259	1	1456	
5427	13478	A	626	3	570	HSLSGTSEVINKLLVQTAMGHFTEEDKA TITSLWGKVNVEDAGGETLGRLLVVP WTQRFFD\SFGNLSSASAIMGNPKVKAH GKKVLTSLGDAIKHLDDLKGTF AQLSEL H\CDKLHVDPENFKLLG/NMLLVTVLGN PIFGKEFHPWRLQASWQKQKMAEDGD CSWPVPCSSRLPLSSLAHDGRVFOG
5428	13479	C	6260	63	302	MIIYKEKRESVSKEDLARATLVTTITNIGS VARMCAVNEKINRVVFGNFLRVNTLS MKLLGICTGLLVKRSTKSIVSXT*

5429	13480	A	6261	1	2063	MGYGVTAFFWAFSRVLSSCPASKKNEL MLTAMDICALSLRCATEDPGVAMGRRP ACCYRYCKNKPYPKSRFCRGVPAKIRI FDLGRKKAKVDEFPLCGHMSDEYEQL SSEALEAARICANKYMKSCGKDGPHIR VRLHSFHVIRINKMLSCAFRAHASKCFQ NFGNMIYKEKRESVSKEDLARATLVITIT NNIGSVARMCVNEKINRVVFGNFLR VNTLSMKLLAYALDYWSKGQKALFLE HEVCVETVNDGQFHSVELVTLNQTLNL VVDKGTPKSLGKLQKQPAGGINSPLYLG AFPWFGMDIGGTLVKLSYFEPIDITAEEL QEEVESLKSIRKYLTSNVAYGSTGIRDVH LELKDLTLFGRRGNLHFRFPTQDLPTFIQ MGRDKNFSTLQTVLCATGGGAYKFEKD FRTIGNLHLHLKDELDCLVKGLLYDSVS FNGQAECYYFANASEPERCQKMPFNLD DPYPLLNVNIGSGVSILAVHSDNYKRV TGTSLLTGCSFEEALEMASKGDSTQAD KLVRDIYGGDYERFGLPGWAVASSFGN MIYKEKRESVSKEDLARATLVITITNIGS VARMCVNEKINRVVFGNFLRVNTLS MKLLAYALDYWSKGQKALFLEHEFGY NIGVIS/SS*DSHTGLSQLHFEREVRRLSL* GFAHVPLALVCGHLPQW
5430	13481	A	6262	2	527	ILAVHSDNYKRVGTGTSLLGGGTFLGLCS LLTGCSFEEALEMASKGDSTQADKLVR DIYGGDYERFGLPGWAVASSFGNMIYKE KRESVSKEDLARATLVITITNIGSVARM CAVNE*INRVVFGNFLRVNTLSMKLLA YALDYWSKGQKALFLEHEGYFGAVGA LLGLPNFS
5431	13482	A	6263	2	186	RNGLRYRQPI*CLIAENFPGLARDIDIWK LETQGVPNRFLNRSSQRQMIVKLSKVK NREF
5432	13483	A	6264	3	180	EMGKGIDSLFNEIIAENFPGLARDIDIWK LETQGVPNRFLNRSSQRQMIVRLS*VKI
5433	13484	A	6265	3	474	GTDVGKVKAAHALSHKKLCLKMTQVTT QWLEILQRLCLHDQLSVQHRGLVIAYNL LAADAELAKKLVESELLEILTVVGKQEP DEKKAEEVVHTARECLIKCMDYGFIKPV *TATLRDAGSGPVLRCRVLGWLGSPGESG HLGHIAVTMKSQYKGT
5434	13485	A	6266	2	651	HSERGRQRKRVRQKTDTVREKGRERER QTGREERE*DRRQTO*DRQGRERDKDR DRDREKERDRQTEKETQREQRRTERN RQREGPSPVAIQCLFFHFLFFSFFLSCIS VCMDVCMYVCMYVCMYVCMYVCMYV YLETGSHSVAQCSAVVRSLGHCSSLRLP GSSHSSPPASRVAGVTGACPTAPDSISYF QVRDGGFTTLARAGLELLTSG
5435	13486	A	6267	56	901	EEIAVSILLPSALPAPATVGPVALVDGL GGWLCQCQAREQPAE*QPGVLVPPGGR ERQGGCSFRGQSLALLSSADFTGPGYK PHLSKENLVKIIQLDKKPQEGVFPTLGV SMRIKGRDCRLSSIRSPRVLSPADRFSC FPTVKDSVQRTSASAPSSLMIAAEEKC HSSE*PTASGSPQQHQTHPGATGPAPLQ VETQYTRLSSGLAGPRTLSNESECSKPTL EPKAFWVNKAKFCLCYLVVSPQLIPRH GSDMMSGHTFEIPLLARKGCPRQAVW
5436	13487	A	6268	132	378	YHSQRCRRGVIIIVLSKSKARSRRSRMKQ YKNETVKDKGKYHKNVSMISLK*LEKP VRPLELYYYYYYYYYYYYYYVQVLS
5437	13488	A	6269	3	397	QRDLTRHISLKSKTGVHLPEPNLNSARRI RNISGHRKSETEKESGL*PALRQLNASW RKVIWEQVIQLVS*TTRELRRG*LSVGID DVGVEVTVLVVFLCSSTIVALLCFSYV SCLCPCWCLLSLCSF

5438	13489	A	627	62	281	SGVYFSFVQREKTLTQHLILFGLP*EYP TLTTFEGEIISKHPFLTRKWDADDEDVD RKHVWSKSDLCWVI
5439	13490	A	6270	2	250	KKARRSGVILAHCSLELPGSSGSSLFSPA SSWDYRSAPPPPSNIFLLF*GRVLTMLP RLASNSWAQAILLRWPPKVLGLQV
5440	13491	A	6271	118	184	QKEKL*KMGAVLKSLCNASIILRNANKC NNRRKSYQPFSSFMNIDAKVLNKI
5441	13492	A	6272	798	1096	KIMLEHLYSFFEASRSVIQAGVQWRDL CSLQAPPPGFTPFSCSLQSSWDYRHLPP HPTNFFCIFSREDEVSPC*PGWSRSPDVVIC LPWPPKVLGLQA
5442	13493	A	6273	3	163	HASAHASGHASGGAEGKQAEVANQDST EDLPAENGEAKTDDSPASDEAGENDA*S DEAGENDA
5443	13494	A	6274	3	330	INIRFYLSIKASARSTQG*VSSCTKLQIF FFFFFEMESCSVTQAGVQWRNLSSLQPL PPGFKQFSCSLSPSS*DYRCPPRPANFCI FSRDGVSPC*PGWSQTPDLR
5444	13495	A	6275	167	362	SPYGKSNLLEPSASRFKQFFCLGPLNNW DYRLFPPFGNFGVFKKNRVFPFVPSLV* TPDSRGIP
5445	13496	A	6276	2	354	
5446	13497	A	6277	196	321	EQTKAKCPGAHEQVVK*NN*GHHLLSPA HFSHLQLKQFDKMI
5447	13498	A	6278	1	923	MERWRDRLALVTGASGGIGAARALV QQGLKVVGCACTVGNIEELAAECKSAG YPGTLIPYRCDLSNEEDILSMFSAIRSQHS AVDICINAGLARPDTLSSGSTSGWKDM FNVNVLALSICTREAYQVHEGSGMWT GHIN*HQ*ACLATRVLPVSVTHFYATK YAVTALTEGLRQELREAQTHIRATWQLR REEAAAGYQAATVKLGFCGLHPLPSTS PRPGKAQPLRRPSLLAQCSIPGVVETQFA FKLHDKDPEKAAATYEQMKCLKPEDVA EAVIYVLSTPAHIQIGDIQMRPTEQVTY
5448	13499	A	6279	28	311	AGVQWCRLSSMQPPRLKLSFHLSPS SWDYGCTPPIARLIFVETGFHVA*AGL KLLSLSNLPT*ASQSAGITGMNHQAQPI SIFKSSSFG
5449	13500	A	628	1	395	
5450	13501	A	6280	1	304	
5451	13502	A	6281	62	299	LFFSPQTHPTQTAFLLSSVDLHHCYSQM MLPESVAIVCSPKFQE*V*RAWFWVFQG GSREESLRGKGLYSCGLVLCKIP
5452	13503	A	6282	110	276	QSETLSQKKKKKKKNW/YKCGGTHL/LI QATREAEALLQTG/GRGCSEPLHHSPT AW
5453	13504	A	6283	380	507	SMNPGSPVCVMLITRIP/FCIAHAHLRCC MVL*LHHFHFRLSIC
5454	13505	A	6284	14	235	DRVSLCHPGGGGSELRSCHCNLAWVT EQNFVSKQKEKKR*LLYT*LVLPMSDGL HVAQDSFECSSTQICKLS
5455	13506	A	6285	494	789	DHRFAPSHLADFYFFCRDGVVQ*NDLDS WQA*PPGLKDHLPS*DHFRAPSHLADF YFFCRDGVVQAGLKLLSSSNVPALASQS AGIIGVNHCTQPTLCLFKMMYLFNFCHH WVLHLPakeipePVFKLPRVFYTPFNCLS K
5456	13507	A	6286	3	107	HIQLCR*LIHTHTHTHTHTHTQFYLFFK** HSAC
5457	13508	A	6287	2	214	VDFFFFFFKLDRVSCCPSWKFSG*WL FTRTDHRTLPTPGIKQSSCLSPSRWDY KCVPHVSSLSPS
5458	13509	A	6288	3	213	LLKQNKH*SRILYPTKLSFMNEREIKSFS DKHMLREFVTRPDLQEMQKGVNLNKT

						KGWHAPE*NEKA
5459	13510	A	6289	1120	1668	SGDALFPLFFLFNFRVTKLRSSLWMHLG KQLPEPPNSRPTVETQKGSS*DT/PPR*SP *ACFHNSLFPRFG*PTLI*QEHLTTCLL/PG DFFFFFF*DRVLP CYPGWEYSAKTMAHG SPNLLE*SSHLSLPSSWDHRRMPLCLAN* KKKKKQQRHGLMLPKLVLSWAQVIV LLWPPKVLGLQG
5460	13511	A	629	27	121	APTPDAMGHLYED*ATITSLWCKVNVD DSG
5461	13512	A	6290	186	297	PNLG*LNPPPPRLKHFSCGLPSSWNKKA IACHGAK
5462	13513	A	6291	59	132	
5463	13514	A	6292	1	335	
5464	13515	A	6293	1	457	FETRAGSIAQAGVQWCHLGLLQPPPPGL KRSSCPQP*VTWDYRRTPSSPG*FLYFL* KTGCHHVAPGCKLVSSSDLPFLASQSA GITDRHQPPCLGPKLWTLRKLGDIFLW FHDNLGYTLGRNTHEFSTSRAVIITVFRS FKHSTPDFSG
5465	13516	A	6294	76	343	YTFSSFLYFFTFPLDNSKPKIFFFFFFFF FFFKETWIVLIGLNAGYM*TTPOK*EALL GNTITHVTRLAKHSVLLT**IE*VHDSTF
5466	13517	A	6295	362	561	LEHNIFLSFETDSRSVAQAGLQWCNLSL QLLPPGFKRFSCISLVSRL*KAFCGPPQLLN FTPIVQY
5467	13518	A	6296	3	349	FFLETEPSCSVAQVGVQWPDLGSLQPHL PRFK*FSCLSLSSWDYRHAPPHSANLYI FSRDGVSPHWPGRSQTPDLRRPTLLSLPK RLDYSVSHRAQPWPYFRNKEEARPNPFF S
5468	13519	A	6297	42	266	
5469	13520	A	6298	106	860	RRRLPSVAIMIIYRDLISHDEMFSDIYKI REIADGLCWEVEGKMVSRTEGNIDDSL IGGNASAEVGEGETEQHS*SLVVDHC HRTYHLAVKASFTKEAYKKYKDYMT INQQGNLQQRPERSKTFY*QGAVEQIK HILA*FQKTTQSFMEGNMNPDMVALL DYRED/GVVTPYMIFFKDGLRNGKNVKN CGQLFWDLSPVIINWASAWSSTQHGLK TKWGLMVIFELLHFILDWGFIEVAIVF
5470	13521	A	6299	10	281	SRSFFLSFFLFVEMECHSVAKSGMQWRN IGSLQPPPPGFNQFSFLSLPNSWDYRCLP LHLANFCIISRDKVSPCWSAWFSRST*PT PDLK
5471	13522	A	63	547	644	IPGRPWR*L*S*PVILRLQPQATSGG*MVR ASL
5472	13523	A	630	128	379	FNSRPSLRIGLFCITCSLWDCFWCCWIHA SLYSVIRSLLSFGTLVCFSLFCVAFLSFSF *VVLFFLLFISSGFFSFVFLVFLF
5473	13524	A	6300	3	111	FIKIHGLPMLPRLV*NSWPQAILLPWPPK VLGLQA
5474	13525	A	6301	2530	4923	TVPHH/AFILFFF/CFFERESYSAQTGVQ WHNLGSLQPLPPGFK*FSCLSLPSCWDC GHGGVSL
5475	13526	A	6302	2	300	GSFALVAQAGVQWWDLGSQLPPPPGPK QFSCSLSSWDYRRALPWLANFVFLVE TGLHHVGQAGL*LLTSSDPPALASQSAGI TGVGLASTYFIEVI
5476	13527	A	6303	1	453	
5477	13528	A	6304	305	432	FLHFK*MMNNMGGDEDVDLPEVDGAD DVSLKILFSVYFHTIK
5478	13529	A	6305	3	306	
5479	13530	A	6306	1	122	TRPEFPGRTPPSQKG*GKKEEKPET*KER TGPSEKGETKA

5480	13531	A	6307	2	392	CSCSAEAASSGAAVPVRCFTFCFTDIVI MPKGKSPENTEGKDGSKVTKQEPTRRS ARLSAKPAPPKPEPKPRKTSAKKEPGAK ISRGAKGKKEKQEAGKEGTAPSEHGE TKA\EEA\QKTESVDNEGE
5481	13532	A	6308	3	426	AGNSSIQGHGGWTLRHSLSLPLPFSR GPQCMGAVQPLVLKQPRDASLRGCLLG YDSTATGLY*ILCNLRRHPGVMPSCGAR VLRDHNPEIDIEWLCSCSLLEVLGSLST PGLTLADQAGHSGGIMPLEGSLRSDCC
5482	13533	A	6309	3	372	HAGLGAHPLHHPVIOQEGFLPAPRGFGY RSEVD*IRIPAESTGQNSQCQLRK*KDD YFHCGYFCGCVCTCRGRLQSSTSHQCQA AL*LLLPVCLTMLRCISSLIYT*NLKTVHS VRLNFIYN
5483	13534	A	631	1	371	RQGPQGGRAAPRPPMPGPPLSSARHALP LGSWESWCCCLIPADRPWDRGQHWQL EMADTRSVHETMMQASRKEIQSLPKNG SFPSTNEMRLRYSSYNQASE*P*KLSRP GLWDPIGRAKWD
5484	13535	A	6310	1	230	SGRPFLFFQGKERVYFIPVVVLFYTVVV Q*LRKNVVRWQKTMEPPRSWLMQLGH TEEGPGYPLLGETETKLFRTA
5485	13536	A	6311	2	100	RRPFFFFFFFASCI*NLISPNVQLSNFTCILR N
5486	13537	A	6312	2	192	
5487	13538	A	6313	1	451	
5488	13539	A	6314	231	1335	
5489	13540	A	6315	636	852	FRGSGPRDKTPNCLISLLFSWQPHYFLQR FLYAKLLGLLAELRSINEAYGYIQHIQG LSAMMLLL*EICS
5490	13541	A	6316	1	690	
5491	13542	A	6317	3	302	GFRGCKPQALAASTWC*LCSCTEVKN*G LGTSTWISEDVVRKHLVDVQAEVCKGGA LVDNLCQGSTEKGCGVRAPTQSPQWGT AWWSYQKRATILQIPEW
5492	13543	A	6318	1919	2245	PMQRSP*RT*WS*KPWQENYVMRAQDS VADSINWKKG*QRLKIK*MK*SKKRSLE KKE*KEMNKASKKYGT*MDQIYVGLV YLKVTGRMEPSWKTLCRILSRRTSPT
5493	13544	C	6319	395	1096	
5494	13545	A	632	323	585	SQHFGRTKPEDSLRPGI*DQTGQPRETLF LQNLKKLAGHGGACLQSLLGRLRWE DRLISGV*GCSDT*LYHCTPAWVTEQDP VSE
5495	13546	A	6320	304	475	PRQTGSGVDLRQTPTDLQLRV*LLEGKI TNRKGHLHQNPICTPSPSKTKGKDQIYV
5496	13547	A	6321	224	1767	HCLSNVSAGLHPFTSYCLLHEKKFKA AVLSLGECCDGDADGGDGSMAKSGP LAAGLLEFAGGPLQTLFAWVSAAEAAE QPILLNSKCCCLIVPLEASSWRGTRPCEVI VSEAGASIYSVSPEANKEMPGLDPNLRS AVSIARRVQDPLAELVKIEPKHIGVGM YQHDVVSQTLKATLDSVVEECVSFVGVDI NICSEVLLRHIAGLNANRAKNIIEWREKN GPFINREQLKKVKGLGPKSFQCCWAFI RNQPGLYPNVLQSANLKLQAKFQGVAV TSSADVEVTNEKQGKKKSKTAVNVLLK PNPLDQTCIHPESYDIAMRFLSSIGGTYE VGKPEMQQKINSFLEKEGMEKIAERLQT TVHTLQVHHRWVFSQPEGDFRDTDF**T WIFKEEGIVCLEDLQIGTVLTGKVENATL FGIFVDIGVGKSLIPRNVTEAKLSKTKK RRSLGLGPGERVEVQVLNIDIPRSRITLD LIQGVMSIPRRPDADFIFSPQIDKDSVV CKL

5497	13548	A	6322	2	64	AFRFSSSVRLSHTGEKPYECKQCGK AFISSSHFRLHERTHMGEKV*EYKQHSE AFGSSSF*IHKRVTGQKLCEYKHCSC ALD*SSFF*ARKNSHW*ETL
5498	13549	A	6323	168	499	VCSSAQ*QTCFSLVSPTM*NLIKEFLNN IKFPQQDGTSQALVSGENVDIRKIVGVS GVGSYLGSKIFRLGAVAHTCNPSTLGGR GGQITRSGDGDHPGQQGETPSLLKI
5499	13550	A	6324	165	548	SPSQHSLVPSTPLPGSVLWGGGCLPCAA EGSRSQQGDGWLRRSSVDLAVGDGEGK EVPRPLALGCDLARDGSRTLSPLGPCPKP LGQRWES*ELRKVPGLAPDLSVESAPRS WEAPECQQMLQLSP
5500	13551	A	6325	18	225	TLGLK*SSHLSSLSSWDYRCMPPHLAN* NFCFLVF*RWGLAVLPRLLNSWPSAILP PWPLKVLELOV
5501	13552	A	6326	724	900	MTSFSDFQSFQNRGSTIVTIAHFWSRKY LSDKECS*NACVVFIHSI*KWANTKTFIP D
5502	13553	A	6327	15	185	VPFENPWVDPVRPRVRFFSTGTFRCCA H*IS*LLQSGSSQASLCRYNEESQKHAAL SLSKEHNPTQYEERMRIQKAGGNVR*PR QACVVMRRVKNMQP
5503	13554	A	6328	199	544	PARLGLEEGRYLITGRGWVWLTPVIPA FWAEVARSQGGQKIETILANMVKPHLY* KYKKKLAGGGGGYL*S*LLGRLRQENG VNLGGGACSEPRSCHCTPAWATEQDSV SKNKK
5504	13555	A	6329	837	1096	
5505	13556	A	633	1	231	
5506	13557	A	6330	454	526	
5507	13558	A	6331	258	488	NTVSTRKYKKLARRSGGCL*SQLLGRLR QENDVNPGGGACSEPRSRHCTPAWATE RDSVSKKKKKKCFQSSILK
5508	13559	A	6332	3001	3080	
5509	13560	A	6333	6181	6292	
5510	13561	A	6334	3	222	ASVTACRLNCQGCSPCQPFPHLAAPL P*VNPQLETPFP*ARTQRIPLPSG*PGTPS PKPTNHIPLTDPL
5511	13562	A	6335	2	227	FFETESRSLTQAGMQWPNLGSLOPPRPG FKQFSCSLPSRWDRHMPSGLANFCIFS RDGVSPY*SGWS*TPDLR
5512	13563	A	6336	2	218	TWRLAVAQAGVQWRNLSSLQPLPPGFK *SSCLSLPSSWEYRLPPRANFYIFSRDR VSPCWPGWSQTPDLR
5513	13564	A	6337	31	165	GSHTVTQAGMQ*SNHGSLLQLYPLSLRRF SYLNLPSWDQRSNKEG
5514	13565	A	6338	122	376	KMGPLSSSSLPEAECDPRAATLGMNKM LHSHWVSSIAPVDPGMG*KAASGPDFET GQAEARLSPPSLQESSVWPGDFPHQIC
5515	13566	A	6339	3	268	GRVAVRKEKGSFWLVVFNWLSDLNWPL PPLPGELA*TFLKSSLRRPAPAPRPPPT PSPTPRSLAVSSEGWRLLSMTLESDDL DL
5516	13567	A	634	1	686	ARAGLGFSCGFGVPDSGIGGAMSSFEGQ MAEYPTISIDRFDRNLRARAYFLSHCH KDHMKGLRAPTLKRRLECSLKVYLY*SP VTKEVLLTSFKYRFWKRIISIEIETPTQIS LVDEASGEKEIVVTLTPAGHCPGSMVF LFQGNNGTVLYTGDFRLAQGEAARMEL LHSGGRVKDIQSVYLDTFCDPRFYQIPS REECLSGVLELVPKLDHSEVPCCVAEL Q
5517	13568	A	6340	2	218	IYTHIH*IDPMFSL*GHMEGEVWGLATHP YLPICATVSDDKTLRIWDLSPSHCMLAV RKLLKGKRLSHLNV

5518	13569	A	6341	1	5748	MPLKLQNC...HPERVLVATGQVGKEP YICWDSYTVQTSVLKDVHTHGIACLAF DLDGQCSVKAVIDNARRNECGYIPVKLY LQKHSFSLICLPFYSLDFLDINQRLVSVG LDSKNAVCVWDWKRGKMLSMAPGHTD RFWSLCGNALTPKRGVFGKTGDLQTLIC LACARDELTYSGALNGDIYVWKGINLIR TIQGAHAAGIFSMNACEEGFATGGRDGC IRLWDLTFKPITVIDLRETDQGYKGLSVR SV
5519	13570	A	6342	2	252	PPE*LGPNGCQGPPTPLPKFW*ILSKKNG GSPPIIGPGPILKPP*PLRWIPPCPLSPKCL RLPGHKPSAPQPEN
5520	13571	A	6343	289	395	SRICPHRDTRKEYNSYTI AFLINLLKFAEL DCIVYFRLNDN*M*IFRCSTIFYNPALAF HILRKPPTSFF*GRFLLEMP*MLLLII*I PNYLIQIKRSI
5521	13572	A	6344	262	389	PQVTFASRYATILL*FF*PCLVFYSLPN QFYVQGLANA
5522	13573	A	6345	1	103	QSFTYCFESF*NLSVFLYCLYRITN*VYY LYVE
5523	13574	A	6346	7	156	LFSFHVSGTMAHTCNPSTLTG*GRIT*GL EFKTSLGNTVRSRHYRKKKIA
5524	13575	A	6347	94	469	NCTYVIKVNIRHMYTPITAIKIISTRFKI YWYSLIFS*ICIHIFETRSITPAGVWC HDHSSLQPLPPGLR*SSYLSLSSSWDYRH TPPCSANLCVCVCRDRVSPCYGWLLN ILNVCII
5525	13576	A	6348	1	226	FFEMESHSVTQAGVQWPDLSLQPLPPG FK*FFCLSFPSSWDYRHTPPHPAYFCIFSR NGVSPCWPGWPRTPDPR
5526	13577	A	6349	3	308	KDEKGEEDGKEDKNGNEKGEDAKEND DGKEKGDKKEGDKVKVEDEKEREDG KEDEGGNEEEAGKEKEDLKEEEEGKEED EIKEDDGKKEEPQSIV*NCPM
5527	13578	A	635	52	264	GLLVGVGAAAVMPGIVELPTLEELKVDE VNISAALKDACHDYGDEWDKPNVDIM L**LEQLHPSMGQAL
5528	13579	A	6350	1	239	MDGGTEKPFACPV*CTKRYKNVNGIK YHAKNGHRTQIRVRKPFKCRGKSYKT AQGLRHHTINFHPPVSAEIRKMQQ
5529	13580	A	6351	219	688	RRMHAYVSLDPLERPPFFFLFFFLFFFL LRRSFALVAQAGVHWRDLGSPQPPPRF K*FSCLSLPSSWNYRHAPPRANFVFLVE TGLQLPTSGDLPASASQSVGITGVSHCA WPGNWLLKETRCGSSVGRQITGPITPA WVDPGIPDRYLQA
5530	13581	A	6352	3251	3700	KWPYWLKEESSKLLHHQETS*HSNLGN* ASGLRTLPRAEQKE*GMQTSGR*TR* KEALFSITTDQRRPAVGSSSLPAGHLCS QORRAFTDLRGEDVLADWSMGGYGWP RRGPRIPTLVGRGAHSMATTTTDPHRVL PAYHQCSPCI
5531	13582	A	6353	3	347	DAWEQTQDTELVEPTRAGDGTGFKWAA VVVPSGEEQRYTCHVQHEGLPQLILRW EQSPOPTIPVIGVAGLVVLGAVVTGAVV AAVMWRKKSSDRNRGSYSQAAV*DSFL VWD
5532	13583	A	6354	3	174	

5533	13584	B	6355	10	720	MAPRTLVLLEGGALALTQTWAGSQSMR YFSTSVSRPGRGEPRFIAGVGYVDDTQFV RFDSDAASORMEPRAPWIEQEGPEYWD GETRKVKAHSQTDRENLRALRYYNQSE AGSHTLQMMFGCDVGS DGRFLRGYHQ YAYDGKDYIALKEDLRSWTAADMAAQI TKRKWEAAHVAEQRAYLEGTCVDGL RRYLENGKETLQRTDPPKTHMTHHPISD HEATLRCWALGFYPCGDHT*
5534	13585	A	6356	3	223	
5535	13586	A	6357	1	179	RSQVIRHQRIPTGQKSYKCHKC/GQGFSL RSLLAEHQKIH*DN*CTGNEYSKPSSIN CH
5536	13587	A	6358	38	294	LHLMQNRRLHTGDKLHKYDDC\GKAFT SHSHLIRHQRIHTGQKSYKCHQCGKVFS LRSLLAEYQKIYF*DNSSECNEYSKPSSIN
5537	13588	A	6359	2	244	
5538	13589	A	636	1	380	KHSVCGRARASCSSFASVFLISKMVRE QYTTATEGICIERPENQYVYKIGIYGWRK RCLYLVLGLLLMILVVNITLTIWLNVTW VSSTSTAPHRV*H*NSLCAETQLQLRLPK RGRHVNFVFPY
5539	13590	A	6360	339	1079	ILSLPLLLAGGTDIISCFMGNHNSLPVYK GEIQARNLGMAVEAWNEE*KAGWGEGS ELACTKPIPCQPTHFWNDENGKRYKA YFSKFPSIWAHGDY*RINPKTGGIVMLGR SDGTLNPNGVRFSGSEIYNIVESFQVED SLCVPQYNKYREERVILFLKMASGHAFQ PDLVKRIRDAJRMGLSARHVPSLILETKG IPYTLNGKKVEVAVKQIIAGKAVEQGA FSNPETLDLYRDIPELQGF
5540	13591	A	6361	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTVGVDGTLY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSGKGAALITAVGVRLRTEASS
5541	13592	A	6362	2	55	FFLRRSFTLVAQAGVQWRDLGSLQPPPL RFR*FSCLSLPSSWDYRCLPPLLANFLHF QQRFSFTILARLLVSNS*PRDLPASASQS AGITGMSHHACPM*FFFETEFHSCCPGW SAVA
5542	13593	A	6363	167	293	VVKKLLGILLNQMKTKMNF GDFLTVM QKMSEKDTKEEILKSSQFHHQRA*KLF DDDETGKISGFL
5543	13594	A	6364	3	226	FLR*SLAVNQAGVQGRHLRSLQPLPPRF KLFSLLYLPSSWDYSHAPLPANFCIFSR NDVSPCWPGRSQTPDLK
5544	13595	A	6365	1	648	
5545	13596	A	6366	26	612	VGAGGRGWRFAAAVRRAAGGGLRPGP APGPRAGGGGPRGAHLALLRRAGALRA GKEYGKADARWVYFDPTIVSVEILAVAL DVSLALFLIYAIVKEKYRHFQITLCVC ELYGCWMTFLPEWAHPEAPNLQQPATG WLYWLGFLLFF*RCVGFLIPRNWLLWA VHGPRTSRKWHQKGNQFQWKEVFSGT QNP
5546	13597	A	6367	3	292	TPWLRDFHDPIVEVEVSVPFGEPLLSAP GLPEPRAGHSVPSGLSVVAFPSFSSDNVP GSLEHLLVLHFPBGDVSLRPLCLPI*ETF MIPLSRLRCPCSRVSFSPQHQAACLSGL VILSPVASVWLLFHRFLLTMSQVPWSIFL FSISPGATCPSCALCAFLSRSEELRSHLCH R



5547	13598	A	6368	237	1202	
5548	13599	A	6369	2	58	PRVRCFIYTGKAPNLDKMADDLLAAAD KVR*EGSKPRQNG
5549	13600	A	637	23	360	LCQSQATLLSIFSQEYQKHIKRTAKHHT SEAIESYYQRYLNGVVKNGAAPVLLDLA NEVDYAPSLMARLILERFLQEHEETSPFK GIINMMLRYPSQIPDGALAY*VYHGK
5550	13601	A	6370	1	1136	MSSGPVAESWCYTQVVHFLFNCFLFFYQ QIKVVKFSYMWITNNFSFCREEMGEVIK SSTFSSGANDKLKWCLRVNPKGLDEESK DYLSTYLLLVSCPKEVRKFKFSILNAK GEETKAMESQRIAYRFVQKDWGFKKFI RRDFLLDEANGLLPDDKLTLFCEVSVVQ DSVNISGQNTMNMVKVPECRLADELGG LSENSRFTDCCLCVAGQEFQAHKAILAA RSPVFSAMFEHEMEESKKNRVEINDVEP EVFKEMMCFIYTGKAPNLDKMA\NDLL AADKYAL\ERLKVMCEDALCSNLSVEN AAEILILADLHSADQLKTQAVDFINYHAS DVLETSGWKSMMVVSHPHLVDEAYRSLA SAQCFLGPFRKRLKQS
5551	13602	A	6371	21	358	GCRHSASCAAPRALGPAPARQR*PKAGR VFFERTS*T*G*PAPGRRHPGPRIGRRR RSGCSRVRSSVRDC/PSSRSKASNPLSL SSSTGCDGARPPCSV*RWSRFPGARR
5552	13603	A	6372	1	1458	SLPRNLPVTIISQDFGDASPRNGQEADD SSTSESPEDSKYFLPYHPPQRRMNLKGI QLQRAKSPISLKRTSDFQAKGHEEETD ASPSSCGSLPITNSFTKMPPRSRSSIMSITA EPPGNDISVRRYKEDAPHRSTVEEDNDS GGFDALDLDELAAGETVAQSPPGVPCQP PLFQGSPLCQLRLPTDETKDEWSSLMG KHQRYQVLKRDDSHERYSGPSSIHSSSS SHQSEGLDAYDLEQVNLFRKFSLERCR NRGPQRKGLAKAMQHGRGKEVGPRYP AVPIHDTVEPDPSGLRSPLWGTCGAQGP RCSTRR*MATASPPSSPCWGATREGASC TRSSLALWPRKPASVRATSCCC*KAASE ARGRVSRWTHAPKRKPTGPSRGAAAPS RCTKGGQPRSPAENPWACRI*CGQHLQSP ELRSSTALQVWNSRERKFIPAGVPEAGE GHGGRPDHIGGLVLHPAEPEHLQAPAGRL HHVPEV
5553	13604	A	6373	103	226	CCFEILKLMKILISEMHLMLFFL*QLRKS A*IPYVPELFLS
5554	13605	A	6374	112	303	
5555	13606	A	6375	3	109	AWKFFFYFILLFFLEKHHFYVQ*NISL A*KKKK
5556	13607	A	6376	22	175	THDHVSVYFFFLGLKSTEIQC DIKMQIFL FI*VENHLPVSIYILKYFLWIL
5557	13608	A	6377	1596	1878	TMSDTTFKALR*QLPVRTKIDWNKILSY KIGKEMQNA
5558	13609	A	6378	394	626	SDSVNPQLRVFKILN*SLGILKTHIQIKLF FFFFSALTALGTLVCVSIYLYGLPRQD TTSIQQGETASKERVIGV
5559	13610	A	6379	2	101	KTLVPLIPIITTLANPCKKD*YPYVVKISI AC
5560	13611	A	638	1	77	
5561	13612	A	6380	1	297	SRFKRFFCLSLPSSWDYRHAPTHALANF VFLIETGLHVGQAAGLKLTT*GDLPALAS QSAGITGGNHCTRQVQCFFRCWGYTRES GQKLDPARVMFENK
5562	13613	A	6381	1	394	TGTHFHFYLLLVLLFLEMGPQSITQADV QGHNHSSLQPQTPGLKQSSRLSL*NSWD YRHTPPHPANFFRIL*RQGSHYVAQG*SQ TPGLKQFSRLGFPKRWGYRHESPHMAR DRYSYCPHFDEETGDPER

5563	13614	A	6382	3	160	QL*WSHLLQRYSSCNV**KRRGLIR TYGLDMCSQSLCQYAKDIGFIKLD
5564	13615	A	6383	1	1240	
5565	13616	A	6384	3	3129	KLGSMEPAPARSPRPQODPARPQOEPTMP PPETPSEGRQSPSPSPTERAPASEEEFQF LRCQQCQAEAKCPKLLPCLHTLCSCGLE ASGMQCPICQAPWPLGADTPALDNVFFE SLQRRLSVYRQIVDAQAVCTRCKESADF WCFECEQLLCAKCFEAHQWFLKHEARP LAELRNQSVREFLDGTRKTNNIFCSNP HRTPTLTSIYCRGCSKPLCCSCALLDSSH SELKCDISAEIQQRQEELDAMTQALQE D
5566	13617	A	6385	2	416	ACCLLYRGDMVPKDVNAIVTIKTKRRI QFVD*CPTGFMDGINYPSTVVPVENLD KVQRAVCMLSNTTAAEAWARLDHKFD LMYAKRAVHWYMGAEEMEGEFSDAR EDMAALDKDYEEVDADSVQR*GDEDGQ EY
5567	13618	B	6386	95	412	TNRSIQFGDWCPGFKVGINYQPPTAVP AGDLANVQRAVCMLSNTTAAEAWARL DHKFDLMYAKRAVHWYVGEEMEEGD FSKAREDMAALEKDYEEVCVDSVE*
5568	13619	A	6387	2	614	
5569	13620	A	6388	151	1605	RGKTLRGLWRFGKIPTHSENMRRECISIH VGQAGVQIGNACWELCYLEHGIQPDGQ MPSDKTIGGGDDSFNTFFSETGAGKHVP RAVFVDLEPTVIDEVRTGTyrQLFHPEQ LITGKEDAANNYARGHYTIGKEIIDLVLD RIRKLADQCTRLQGFLVFHSFGGGTGSG FTSLLMERLSVDYGKSKLEFSIYPAPQV STAVVEPYNSILTHTTLEHSDCAFMVD NEAIYDICRRNLDIERPTYTNLNLIGQIV SSITASLRFDGALNVDLTFQTNLVPYPR IHFPLATYAPVISAEEKAYHDQLSVAEIT NACFEPANQMVKCDPRHGKKMACCLL YRGDVPKECHMLAILPPSKTKRTYPCF VDWVRPSGFHRCGISTIQP/PTLLVPGGD TGARYQRSCVHC*ANTTAAEAWARLD HKFDLMYAKRAVHWYVGEEMEEGE FSEAREDMAALEKDYEEVGVD/SVEGEG EEEGEEY
5570	13621	A	6389	1	251	CLKEISFLNGSLTPGAAVKSWLTATSACS FKGFSCSLSSSWNYRCAPRPTNFCIFS KDRVSLFLLFSLFLPLLARLVNLY*PQV IHLPTWPKVLGL*AAVKSWLTATSACSF KGFSCSLSSSWNYRCAPRPTNFCIFSK DRVSLFLLFSLFLPLLARLVNLY
5571	13622	A	639	34	421	
5572	13623	A	6390	3	445	RLFFFFVFLVEMGFCHVGQAGLKLVT CDPPTASQSAGIAGVSHRA*PNTSLK*K LTDSKSPGICFFVCFEIES
5573	13624	A	6391	2	176	CKFAHGNAELHEWEERRDALGMKLNK ARKDHLIGPNDNDFGKYRFLFKDLN*YA GFYV
5574	13625	A	6392	186	374	
5575	13626	A	6393	872	1122	LRPWKPLCSSVERLWLPVELLP PPPAG VLPQPSAQYGERRTFGLTCQGGPGTRAG PSMGCTGYT*RVSIQVASGPFFHWPL
5576	13627	A	6394	3	415	ERLWLPSVELLP PPPAGVLPQPSAQYGE RRTFGLTCQGGPGTRAGPSMGCTGYT*R VSIQVASGPSPLASRMVQRGWLGPVFR LLPAAALGDMCAHLASSSPCSPLLTVPR ASQVPPKELDPISCSLRPRKVS GP

5577	13628	A	395	3	349	VSVVEFLCSKPAQWSHLAQHQLLHTG EKPPFCLECGRCFRQRWSLAVHKCSPKA PNCSPRSAIGGSSQRGNAH*KGKDCLRSF HFMEGPRKGKEEPQVIQGRVRTKPGSPA AQ
5578	13629	A	6396	2	352	EGAAPSSGGPLRDFWGFPRNTNKPSCGT G*SLQRICWMASLAPPGPAPRGQAPHTH RPLGRPSRGAQVQPAAGQATSKQSP GPGFWSQLPQDLTTASVSPSVNGASKAC LECKS
5579	13630	A	6397	2	361	GGEDPPALCRKPTAQTQTGKKHSGTAA VRSRERHKEVRAGHSLSALDSPSLLPGI LSPVHQCDVTRVDPIPSLLTALLWLPSAP K*RSEPHKPGVGDVWSAPPTSGEDLILL ATSAH
5580	13631	A	6398	11	967	GSWSGLGARPPGGWNYTGSKKLSPGGE AL*MKRSKELITKNHSQEETSILRCWKCR KCIASSGCFMEYLENQVIKDDSDVAQ NICHVWHMNVEALPEWISCLIQKAQWT VGKLNCPFCGARLGGFNFVSTPKSCGQ LAAVHLSKSRDYOPTQAGRLMRPSVK YLSHPIVQSGCDKEALLTGGGSENRNHR LLNMARNNDPGRLEALCLEVRPTYFE MKNEKLLSKASEPKYQLFVPQLVTGRC ATRAFHRSKSHSLDLNISEKLTLLPTLYEI HSKTTAYSRLNETQPIDLSGLPLQSSKNS YSFQNPSSFGS
5581	13632	A	6399	105	465	SRAYCSLTLDFFGLKQSSHLSPOVAGPT GACYHAWPIF*ILAQMRSHYVARAGLEL LSSRDPPASASQSAGVTGISHHAWPVLL LYLAGTQSPEHFIYDGLDNVSSCLHANF SSLSYST
5582	13633	A	64	647	885	TGNLQNGRKFSQPTHLTKG*YPESTMNS NKFTRKKQTTSPKSSSPQRRTHRQRPW GSSQPLPAHSASPRGSGSCSQHFF
5583	13634	A	640	3	345	DAWAWPLNRGFFRMMMDIGAAGVMQ GGDSVELLDIPILKLPDGSIDPLPILLGRL GFHPLKNTVCYGHLDVQPALEDGWD SEPFTLVERDGTLHGRGSTDD*VPLAGW INA
5584	13635	A	6400	1	462	HKSDGSTVSPMMAQTNKFNYTEFTTP DGHYYDILELPYHGDTLSMFIAAPYEKE VPLSALTNILSAQLISHWKGNMTRLRLL VLPKFSLETEVDLRKPLENLGMTDMFRQ FQADFTSLSDQEPHVAQALQKVKIEVN ESGTVA\SSSTAVI
5585	13636	A	6401	3	569	NQASLSFLHLPYSGHLIRGTPGRGWGK VGAASQRGPRLEQPLAACRFSLETEVDL RKPLENLGMTDMFRQFQADFTSLSDQEP LHGPOAL*KVKIEVNESGTVASSSTGESG SGEAPRVSPSPFRITGPQTRKGPRSPGLT EQLCLCSAITHSPVSPGKRAWDHGT FPRLMAPKFPDCEKAS
5586	13637	A	6402	3	194	FFFFTCTQMFITALFITAPNWKQPRCPSIG Q*TNLFNEAVLSREESIKTKTRDRCYHM DRISK
5587	13638	A	6403	2	223	EMESCSITQAGVQW*DLSSLQPPPGFQR VSCLSFSSWDYRYLPPRLANFCIFSRDG VSPC*PGWSRTPDLR
5588	13639	A	6404	2	247	RLFFFF/CFEMESHSVTQAVVQWRDLG SLRPPPGFKQFSCSLSSWDYRHTPPH PANFCIFSRDGVSPCWPG*SRTPDLR
5589	13640	C	6405	65	211	MSPNWRWGPPCLATPQGVTPSDTQPCQ ALGLGPHPRNVQPIIISGTG*
5590	13641	A	6406	1	112	GGRGCNQ*SRHCTPAWVTKQGPISDIDI LIRPPLTI
5591	13642	A	6407	259	380	GCVQQGVNVQHCAGQQHL*ENGPGSS DCGWHRGHPLCRL

5592	13643	C	6408	5	160	MGFEGGPKI*WKFKKVXQXSCLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5593	13644	A	6409	117	207	KKTMFRQKLFYKRKQLQKGPRP*GAGF KV
5594	13645	A	641	1	1254	
5595	13646	C	6410	155	394	MLKWIYRIFVNLFLVFVRFFNCSFLCAEC ISLPGQECGGAEVSSFSRTFPQHLLSLYL MXXXXXXXXFLQALGLCYPIQ*
5596	13647	A	6411	68	547	LDNRCERCLTEGGWLTSTHTAPRGKGTW GQKKEPASWGPWGCQW*RGAWPTGC KQGRGGSPSQPLGSGGRHEPGQAKATK ASPSQGEQDKGRPRQQGPSWRSKSSPRPI SDPPTPGGDKGPSSTSLRL*TRLEPDLS LGISAGPTRWTLLSAVQLQ
5597	13648	A	6412	11	321	KNFYLF*DGVSVAQAVQWRDLGSPQ PPPPGLKLLSCLSLPSSWDYGHVPTMPG* FCTFSRDGVSPCWSSWSRNSRISDASACL GLPKCWEFTRRDNSAPRS
5598	13649	A	6413	17	237	YVAQAGLNLASSQSSCLSLPKHWDYE CEPLCLAFFFL*RGGLAMLPRILPPIKSI SIRWRNGQKKMHQVL
5599	13650	A	6414	806	1680	AMGIHCITTTTERTSMPTTSAAVLPGPM RQWQLQLPPCIITQSRPCSCHKSRIQPW PVTSPPLSIPTIDTCCRQPELLPQLLQ QPLLLLQLPLHITGGIGAPCVLQPS LLERATVTGMRVSCPKLQQPRGILCTTW PGMSGSSMPIGRVTATNAKARCRHAAD TALPAASASCVGTTAACWAAAWASAT TGSCACCFMPPASCSTSLCCWALHCRP CCEPTRPSTWLPSSCFPGSC/CRDHCRL LGRCVGFGNYPFLCLL/SSCRR/PSCSTS LCCWALHCRPCCEPTRPSTWLPSSCFPGS CCSQPHCP TTLWSTLTPLSHGRLWLQSQ TLSSPWALWKS RVSGSLH
5600	13651	B	6415	61	516	MTTLKKNLADDDAVSCLVLGTENKELL VLDPEAFTILAKMSLPSVPVFLEVSGQFD VEFRLAAACRNGNIYILRRDSKHPKYCIE LSAQPVGLIRVHKVLVVGSTQDSLHGFT HKGKKLWTVQMPAAILTMNLLEQHSRG LQAVMAGLANGE*
5601	13652	A	6416	360	861	RCGSFLQLLLPMPKPADTALPAASASCV GTTTAAACWAAAWASATTGPSCACCFMP PASCSTSLCCWALHCRPCCEPTRPSTWL PSSCFPGSCCSQAELWHSWPWS*RTA WRVRCCAGLGCCSMGCCCCGARPHGSG LGASTPMTWVPATTCRQPWAPARLGP
5602	13653	A	6417	2	263	NPRDGPTTAAACWAAAWASATTGPSCAC CFMPPASCSTSLCCWALHCRPCCEPTRPS TWLPSSCFPGSCCSQP*SPLSSCKPLKPPV F
5603	13654	A	6418	18	211	NEPRASTLTSSKAGQRQAPWTLFPNSYP L*EYPPANPFQGGPHDCRAQTKDMGAQ APRVPEAGP
5604	13655	A	6419	2	548	NGFRGAHSQCPPACVLPQAMSTGGGRQ LPHPCMNPPSPGDSMDAVIKGAAYDLG GTWKGAKPLGLWHCGG*PIENRAGAGE T*SLHI*TPVRSFGFLGTSPMGSPGALKN HGSCARPLLSPLPYPPKERPLPPWHLQS EDLPPRGPEALMPQELGLERC*YPLPQV PRFRGTGAGLVQA
5605	13656	B	642	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFYA WVLDKLAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*

5606	13657	A	6420	368	623	LVCVFFFF*EKESCSVTQAGVQWCDLG SLQPPPPRSKQFSCLVLPSSWDYRHTPPC LANLCLIFKSRNPYFIFIPFNCYEW
5607	13658	A	6421	42	179	
5608	13659	C	6422	28	219	MQILLKSKPKGSTKXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXFRCHD*
5609	13660	A	6423	2	161	KNLH*MESYSVAQAGVQWHDLSVQPL PPGFKRFSCFSLSSWDSRLYFRCHD
5610	13661	A	6424	363	750	REQDPACAWSSS/APNSSWSLHGEAVSH RECLSSPVLPGPDSSKALSSAAAALSMSS GRGGSLVPFSGPVSGVARWIASCVAGE SCLA*AGTRTRCTAPSEAT*SSTRGLSRG AASLAASVHHGSRMSL
5611	13662	A	6425	890	1879	LWGLVTSSCLSFSRRNFTTEIFQEDLMLS DPLNLLSLVMWLCTLWTSALSMSSG RGGGSLVPFSGPVSGVARWIASCVAGES CLA*AGTRTRCTAPSEAT*SSTRGLSRGA ASLAASVHPGSRMSL*VAGKPKGPGPTE AAPSCRSSITTCTPLTLSSSTADRAL KASPGLSLRGPSSGELCARLSPSSSGM DTFPCLSPTSSWRRFNNSLLALARPRA ASAKPTALSTRW*ITCRSCSEL*TAKPCP VTVMGVLGGGFPWPVLPPLVSLQA QQQHLASLPFPFSMRMVRGAQAPSCR RLPRARGETPPRLPSGSR
5612	13663	A	6426	8	363	AEVQWRNLSSLQPPPGFK*FLCLSLPRS *DYRLAPPCSANFCMVKTEFHVGVQV LELLASSDPPPALASASQSAGITGVSHA WPRASLLSLVIALKQASFFCSHAKQVS QHFTN
5613	13664	C	6427	87	287	MIFFSFCVNTWCHSPFCATVTEYHSLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5614	13665	C	6428	11	328	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC ATVTEYPRLXXXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5615	13666	C	6429	76	276	MIFFSFCVNTWCHSPFCATVTEYHRLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5616	13667	A	643	36	695	
5617	13668	C	6430	7	324	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC APVTEYHRLIXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5618	13669	A	6431	1	336	FFFFFRQSLSVAQAGVQWCDLCSL*SPP PTLSTPLASASQVAGTTGAHH*TGIIFFV VETVFCHVAQAGLELLGSSDPPASASQS AGITATVPSLL*LFIKQKQKQNR
5619	13670	A	6432	3	1105	
5620	13671	B	6433	52	936	MAYLKIQKYEEAEKDCTQAILLDGSYSK AFARRGTARTFLGKLNEAKQDFETVLLL EPGNKQAVTELSKIKKELIEKGHWDDVF LDSTQRQNVVKPIDNPPHPGSTKPLKKVI IEETGNLIQTNDVPDSTTAAAPENNPINL ANVIAATGTTSKKNSSQDDLFPSTDP AKVLKIEEVSDTSSLQPQASLKQDVCQS YSEKMPIEIEQKPAQFATTVLPPIANSFQ LESDFRQLKSSPDMLYQYLKWLSSHQ DNTRAQRLEKAGWQLAFLRYYYHLLDV QKITVCMWQKAF*
5621	13672	A	6434	1	309	LPPIPADSFQLESDFRQLKRSPDMLYHD* KQIEPSLYPKLFQKNLDPDVFNQIVKILH DFYH*GKKSPLIFEILQRLSELKRFDMA VMFMSETEKKIARGII

5622	13673	A	6435	1	936	
5623	13674	A	6436	1	1023	
5624	13675	A	6437	602	744	TPASLKIPVE**NTLLAKMVSIS*PRDLPA SASQSAGITGVSHRARC
5625	13676	A	6438	1447	1931	RKVFKWLSAPLDVSNCPSLCKD*W*RV* RFMPETFFPAR*GAENPTLPCCHYSIN/HFT VFSFLF/IFFFWR*SLTLVPQAGVQWRDL GSLQPLPPGFKRFSCLSLPSSWDYRCLPP CLANFLYF**RQGFTVLARMVSIS*PHDL PASASQSAVFSYLIFFLPY
5626	13677	A	6439	1	74	FWRPVRROQSEYKQVNGQDSTFPI*CLQ TNTDYRFRVCA*RRCLDTSQELSGAFSPS AGFVLQRSEVMLTGDMGSLHDSKMNS MMPTDEQIAAIALGFATLAILFGFI*QSE YKQVNGQDSTFPI
5627	13678	A	644	62	1548	PLKAKMGKEKTHINIVVIGHVD\TGKST TT\GH\LIYKCGNDKRTIEKFEK\EAEM GKGSFKYA*VLDK\K\AERERGITT\DISL WK\FEDQ\QVLMW\THDCPRDTETFIQKHD LQ\TSQGLAWFGGPPFWGGSPLIVCCW CLVEFESWYSSKHWGRPREHALLGFTYT GVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALTLRKIGYNPDTSSILCPIS GLNGDHMPGAQMPNLPWFKEWK\TRK DGNASGTTLLEALDCILPPTRPDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKGM VVTFGPVNVTTEVKSVMHHEALGEAL PGDNVGFNVKNVSVKDVRGNGVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPLGCFVRDMRQTVAVGVKA VDKKAAGAGKVTKSAQKAQKAK
5628	13679	A	6440	2	174	FFFIFFLLENLF*PSNFGSYKPVHCCVFF CCCCFFLA\FFFVCF\FFFSFSLFF
5629	13680	A	6441	1	271	PPRFFPEFFYSGPPKPPFFKTPVFLGVKPG VSSPPYQKKPTNFGPKMGAL*RIPLFET PIWVFPKGFHKKKPPVLN*PPTRKPPPD KI
5630	13681	A	6442	3	128	FFNKKPPPFGRGWPF\VPATLRF*G*KIFF PPPPPEVRFPG
5631	13682	A	6443	1	154	LVWS*EASKIPGGAEAAHPPTTF
5632	13683	A	6444	2	230	FFESGSRSVTQAGVQ*HSLGSLQPLPPR FK*FSCLSLPSSWDYTHVPTRPANFCIFS GDGVSSCWPGWSRTPNLR
5633	13684	A	6445	70	550	NQVIWESFQAGRHHGHPFAPSLAPSASSF LSSFCPSGKAEETLESI*SSGKPGVGEGAT SLFPSIS*MFWEGPENGTOEPAGMPIPHT PPSCSNPAIHSPGGTGAPGRREEALHCPP *HIPSHPPSRPPWLAPLSLRFPTPMAVN DQDRSHVCFPLGLI
5634	13685	A	6446	77	485	NLVYVSSICFTWTFHFERKKFYVSHIVLY KVASPIMKCLYCHSGHTQVVQYLNGEA ARLGQGLLC*NVIIFICLLSLSLFFSFFG PMLKM*NFVFK*CFYNFIRKPKFVFFVTL DFNSLYIGTSNVITVLNKFH
5635	13686	A	6447	3	349	KVEDPSPVWRNSIFWKVITFKVYFFCLF VFLETESLSVVQAGVQWHSLSLQPLPP GFKQFSCLSLSS*DYRCTPPRPADFCIFG RDGVSPYWSG*S*TPDLMLCPAWLPKVL
5636	13687	A	6448	1	189	FFF*IGPHSVAQAGVRWCDLGSCSLNLP GSSDPPASASQVAGTTGVHYTQLIFKFF JEMRAP
5637	13688	A	6449	2	304	LDTPLGAAPAAFFLPSLNQCLIYNPMPVR PLKAWRLKTGILTEPRVKGEALGAGMM PTGVSTASSPSYPLAPLGPRLPLQDCMH QALS*APLSDALCIAL

5638	13689	A	645	2281	2431	KLFFLKNVLLNFFLPLLPSPVLVCYCCF SFFFLYLCLFFTIVVLGSARNK*KLFFLKN VLLNFFLPLLPSPVLVCYCCFSFFFLYL LFFTIVVLGSARNK
5639	13690	A	6450	21	359	SLLQSPAFFSPAFCGLL*PSVVQPSPAFS SLL*PSPAFSSLL*PSLLWPSFSGLL*PSLT FSNLL*SSLLPSTEETPAGQRQELQLFPV GGAADAYFPFKCFKILSSECLK
5640	13691	A	6451	2	170	LSLLSS*DYR*APSQLANFSIFL*RWGLA VLPRLVSDSWPQMILLPPVPDVLKLA
5641	13692	A	6452	3	112	
5642	13693	A	6453	4041	4215	
5643	13694	A	6454	3	309	PPPPK*IL*RAPNPPLSSSSFSNPPTWGP QPPPSKFSKFARFPFLPPFPFKKEPPSSSL FFPTKEGTVI*KNPPFSGFQSPDSIK*GRV EPPGGTKRG
5644	13695	A	6455	2	439	RTSAREKRDLNRLKKLGDSSKNSDC*SV SSNTDADATQEKNNATSNRKSSVGKK NSKSRTLTRQSMSRIPASSNSTSSKLTHIN NSRVPKKLKPAKPLLSKIKLRNHCKRL EHKNASRKLEMGNLVLKEPKVVLNKL PHKKR
5645	13696	A	6456	1	146	
5646	13697	A	6457	59	431	PTAMAEEGIAAGGVMDVNTALQEV LKT ALIHDLARGIREAAKALDKYVYQSQYC GFLOPEQNCHPREGMEFMVLAQKF*M ASVLPET*EKVRAHLCLVLANCDEPMY VKLVEALCAEHQINLIKVDDNKKLGEW VGLL*ILWVLATGTLPPKGRRHGVHGV SAKVLNGIRPTGNLGKGAKPIFVCLHPT VMSLCMSSWWRPVFLNTKST
5647	13698	A	6458	242	431	
5648	13699	A	6459	65	473	PTAMVEEGIAAGGVMDVNTALQEV LKT ALIHDLARGIREAAKALDKRQAHLCLV AFNCDEPMYVKLVEALCAEHQINLIKVD DNKKLGEWVGLCKIDREGKPRKVVGCS CVVVKDYGKESQAKDVIEEYFKCKK
5649	13700	A	646	203	371	HTDIYPNGPRTNEPTAHELIG*H**PSHFR T*VEQYNINADLKS*YQHSMDRMLSG
5650	13701	A	6460	32	485	HLVLASLLACLASIFLPSVGLGQCCLVGS QKTIPRNEGLPRKQTFSLDLLPSCLWFP YSPRLAIKTTIPLHQPKPKNTITLTL FLSV*NWAIGKLFGLPSGL*GQEGPPFQR ESCAI*GRKECCAKRPKRILTDRPRWVPH SVYQH
5651	13702	A	6461	3	336	FFFFDIGSCFFA*AGVQWHDHGS LQPQP GLK*HDIPTTAS*VAGTTGAHHHA*LIF* LSVKMGSSPLVAPGWSMKSWTQANPSL LQPPQSAWDYRCEPPCLVRNTEFYV
5652	13703	A	6462	2	280	VLGIWRVPGGSGKMEKRESEKQILPRPIG CIWERGKSPGEAPSALPMPWSNPPPGTC TPSCPTYRCTPLPR*TDAPSRHHLAPRN GETIFA
5653	13704	A	6463	1	171	MWGWKEKIKINTFVYCWWEFVLVQNF WSTTWQHILKF*MSFDALLGIYPKYILT VT
5654	13705	A	6464	21	402	
5655	13706	A	6465	42	266	
5656	13707	A	6466	60	656	RRRLPSVAIMIYRDLISHDEMFSDIYKI REIADGLCLEVEGKMVSRTTEGNIDSLIG GNASAEGPEGETESTVITGVDIVMNH LQETCFTKEAYKKYIKDYMKSIKGLEE QRPERVKPFMTGAAEQIKHILANFKNY QFFIGENMNPDMVALLDYREDGVTPY MIFFKDGLEMEKCVSTRKWVKINNVKK TF

5657	13708	A	6467	176	552	MRSSKQMKPRCSSITVLSVRGMVLF LTLACPRFKMSSRTDFRFGNPQVT*GSTI CSIFRLPSILSMRTTK/DQGMFIWQFQGM RFHF*SSEHLVTFLLPGIM*E*FQSLKPE PFSFLLSCYCH
5658	13709	A	6468	98	507	RATEKWKGRKNHELWSKCFPLKIFFRRS LAMVLCTSKLRPSVLSMRTTKARECLSG SSNA*GFTSSRLRHSLSRFCARNHVGMI PVA*T*ALFLSSAPSLPKMPALPGWLCGL DKPSSFSGDFLEPKGFFALAPP
5659	13710	A	6469	204	401	WHEFTGAENHCKTLPKENF*WCLCKSH PSEPKNAAYNRTLCDLGISKSEVSLGTSF EMWTSQGOE
5660	13711	A	647	12	355	LFSSLSGGMQSLSLGQTGISEGLN*LTSM APGNLWHMRNNFLFGSRCWMTRFSAEN IFKSVSFRLFGVKCHNTDSEPLKNEDLLK NLLTMGVDIDMARKRQPGVFHRMITNE QD
5661	13712	A	6470	249	906	RIHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPPLGEALALSLHPVPRRSTET VAGDSSELQLGLRSPQQPLAGLAFLARL FLLFPPP*RCKSKPN*NDRRRSSVDSQIHL VGRESAHLAHLRVCVSLPLLARCFGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
5662	13713	A	6471	401	659	LIDLRFIYLFYLR*GLRLVP*AGVHWCN LGSLSLPPGFKRFSCSLSSSWDYRHAP PHPAHFCIFSRDAVSPCWSG*SQTPDLR
5663	13714	A	6472	1271	1538	
5664	13715	A	6473	1	369	ACSSCFHAGLEHVRVRGSGHSGVAAAR RSEAPDLFC*PPSLPVPSTPSPSPAPAMN QATSDPTHCTPTLPTCPNAAP*AGPTAD TPS*GIPDLPAVVLKTPQHLDLPVCSLCG PPLGPTET
5665	13716	A	6474	3	340	ETRSYSVTQAGAEWHDHRS*P*PPGLR *SSHFSLSNWDYRCVPPHSANFLVIFVEI VFHHVAQAGLELLGSSDLPT*ASQSTGIT GVNHCPAEKEVLPREKAMQRGGSQA
5666	13717	A	6475	21	273	GMNERGNITKEIKKIWEY*E*LGTSQLD TLD*TNQKDTNYQNQLTKYRKYGLEPI TSDYISNFKRLPKKSPGLDGFTGEFI
5667	13718	A	6476	2	3204	FGEPTSEQTGTAAGKTIAQTAPVSWKP QDSSEQPQEKLCKNPCAMFAAGEIKTPT GEGLLDSPSKTMSIKERLALLKKSPEED WRNRLSRRQEGGKAPASSLHTQEAGRS LIKRVTESRESQMTIEERKQLITVREEA WKTRGRGAANDSTQFTVAGRMVKKGL ASPTAITPVASAICGKTRGTPVSKPLEDI EARPDMQLESCLKLDRLETFLRLNNKV GGMHETVLTVTGKSVKEVMKPDDDET AKFY
5668	13719	A	6477	250	5816	
5669	13720	A	6478	553	7399	NFNKKNLSFLGFPQRQKVSSFOKEFSLED KEQLANHERGIDAQLLVALPKVAELRQI FEPKKKEFLEMKRKRIARRLEGIENDTQ PILLQSGTGLVTHRLLEEDTPRYMRASDP ASPHIGRSNEEEETSDSLEKQTRSKYCT ETSGVHGDSPTYGSGTMDTHSLESKAERI ARYKAERRRQLAEKYGLTLDPEADSEYL SRYTKSRKEPDAVEKRGGKSDKQEESR DASSLYPGTETMGLRTCAGESKDYLH



5670	13721	A	6479	380	999	AGAKGGGPGRGMKKTNSLTPLLSAYR LLPVLSKGWGILGFSVCPFAPGLMAKG VSPCDTAVKRDNIH*VGGGV*S*KCP*RSS *WSGPVPALTALFLVDNHHEVYLWQGW WPIENKITGSARIRWASDRKSAMETVLQ YCKGEAPSNMPAARNRWGSPSGMRSQE TPFPFCACQPASIHKAQVVDENPIFSPL KPFEDVIKFLD
5671	13722	A	648	1134	1633	PNPTGTLMLARKWCPDGLQSLPPDVLGS *GEHLLSCLCQERACSSNSRRRQAWTG SQGSRVINFFFAKVGTC HQGNHQA KAPGTPPTPSYPGTPSRQLLWQVWQPRP ALPASSPCSRHQLYLPRQAMSWLLSPAP SVPLDFSGASPVWATLCFPHRPLPHR
5672	13723	A	6480	78	200	KKGSPFFPKVGGQGGNLGLELPPKLLK KFFCFKPPKRGDYSSSSSSPDSSSSKKK GVSPFWPGGV*TPKEGGL
5673	13724	A	6481	179	384	FNSYYMYVYVYVHICVFLYVCICIYRYI YLCIAVITCLMNEW**FKCKGNDARGYE KKLPSKYEIEKE
5674	13725	A	6482	76	205	RKKPEPEKTCFDNITGNTYPCSTYEHDS D*YYVNRT*LCAER
5675	13726	A	6483	2	774	HSYSHSHGHGCGSPAGDTEQGYKPVWPV CSLFDPDGSHPGV*QPIHEPA/QGRGGLPP WGAA*TPRAWRLA*RPRG*AALPWA*T SPGRPASAPLAHTGSGCPSRPTRAPGSP/ IPIQNIKRYPYGEAFVPSRAGPTVGVTRS FHLAPSLPPFPSS*LPSLPPRTTTSCTRAI LTPSS*QKLLYPPSRPVVLLVRRARPPAA APTSEPPERSPWETPHAAPSQLHELHET HSAQKSDLLPAPEAM*PGSVSSRFLY
5676	13727	A	6484	2	732	GRRRPGPKPPRAPGRDRDRCNF*PCCPP GAKSSAACCCSDIRRAARAIPLGNSPCSP LSAP*AP*NPLCRTVMGRSPMTLSLGSRT PTSLPAPFPWSPRGE*PTHPRARSLGTL WPMPTTP*IQAA TPWRR*PPATQASTP HSLRGSSSSSQRLAPLRPTSSRACMAGP TTPAAGALGPVTLGVLTTPQAWASLRTP GRLLTSLSPRQPLQRRQWQQQPQLQPQ PRPLWQPCRRHRTRI
5677	13728	A	6485	2	338	CTTAIPTPEEMTRLRSMNRQLQINVDCA LTEVDLLQSRGNFDPKAMNNFYDNI*PG PDVPPKPSKKGPTDSEPKTSSGPCSNIGC LLSCKFFHACSRFQNPPIQHQSTLAA
5678	13729	A	6486	84	300	RVGARGKMTALASGQLGPLMCQFGLPA *AVEAANKGDVEAFKAMQNIKPEQI* GDTKDKTD*KEDLSLD
5679	13730	A	6487	91	668	SRAQVVLHCVLREWAGGRRSPAPPSPW PVLHVPDPQSWQLSSVALGCSPGWSSAL AWLFLQALGMFSAALASGQLGPLMCQF GLPAEAVEAANKGGKVAAPGTPRPEPG AGSIPVPLDLQKWG*GGKGHSPSALDPI ALIPSGARVRHHLVSLTCS\VEAFAKA MQNNAKPEQKEGDTKDKKDEEDMSL D
5680	13731	A	6488	1	414	LQPGPAGAQQVDLA/SVV*PPEIMAPILA NADVQERLLPYLPSGE\SLPQTADENQNT LTAPSSQALGMFSAALASGQVGAPF MCQFGLPAEAVEAANKGDVEAFAKA MQNNAKPEQKEGDTKDKKDEEDMSL D
5681	13732	A	6489	205	553	LSRPRHHKASTTGAQMQRTRSMRQEP EKAILTLRGSREPTPRAPQLVPSVPSSWL FLSLHSIAQTPLPHTHSTHTPRSQPALPSQ APVPVPQHPPPHPE*ALSPDNLFMILKSP

5682	13733	A	649	1	370	QRLAEMSNARKHATKMTYQPTNGTL TSGYVADRRVKHHS GGEEPFQAQKQEP HPGTSRQ*QTRVNLHSLPDPEMHEQTYF RGMRYRKLGGWKAGPEGTFYDIPRYVTA YTFAHTRPADIRAM
5683	13734	A	6490	3	347	SFFFVLRRLSLAVAQAEVQ*RNLGSLQPPP PEFKRFSCFSLPSGWDYRRPPRANFLY F**RGVSTMWGQGSRTPLRGDLAHL GSPKVLGMTGREPPCLGPLNGLTFLPEIS
5684	13735	A	6491	280	406	FFVFLGETGFHRVSQDGLNLLTL*SARLS LPRCWDYRREPPH
5685	13736	A	6492	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5686	13737	A	6493	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5687	13738	A	6494	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5688	13739	A	6495	1173	1295	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5689	13740	A	6496	1027	1149	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5690	13741	A	6497	631	744	VIEHLVSQDGLDFLT*SARLGLPKCWD YRREPPRVH
5691	13742	A	6498	166	352	IFFVFLVETGFHHVSQDGLDLLTS*STRL GLPKCWDYRREPPRPAPSSPIHTVAPIQ YTHP
5692	13743	A	6499	2250	2372	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5693	13744	A	65	1586	1775	
5694	13745	A	650	1	222	
5695	13746	A	6500	150	368	EKELAFFPQGEMQGGNGL*LKPPPLR*R DFSCALPRGGNGRGAPSPTNFGFLGG NGVYPSGPGGFETPDLK
5696	13747	B	6501	174	350	MDEKTKKAEEMALS LTRAVAGGDEQV AMKCAIWLAEQRVPLSVQLKPEVSPTQD IRFLM*
5697	13748	A	6502	1	498	EFRAPGPLGPRTTRPARRVAGSGGPG*G TIFPAPPPSPAPLPGPPLSLSPKPLPLRR TGASREERGLCLETDRDARGAPASGGPPG LGTPRLGGVRASFPRFFPRLVPFPAP ADLSRRPLPSHRPTQDPGLVIGQCDASRL PRGQRGTHRAWAAPEATRPG
5698	13749	A	6503	919	1761	RAFSFNREEPTADEQGLPTSVAGRPVIA AVPSWHARGTERRAPGRD*HHPHGLG AQPSAALLPGLP*HCGHISAGGRREAGNI PGRKIYPPPPQGFYGSNNGQHAYIKLSD A/RSLTR*IQSSMTSCRVL R*GPSLPSAGS SPGLGMSCLTSGTSCGYMTSSWPPTDA DLLCSRDCVVS RAGSPGL*L*HGLGPPPV /SPRSLRTCMPRH*SAEQETFLSFPHPNL LGRPLPNSKLGRQPLLSKTL SWHQPSR GLIWCCGSGGDFCGLKIEQKMS
5699	13750	A	6504	131	575	VFALKPGTPGALPQVGVLRLDERPGWV VSGRPPPASSHLGLVPFPAPKCGTLSRR PLPSHRPTQDPGLVTGQL*CFPTAAGTAT AHTGLGPRRKPHRPWLSCSWSPRLFPGD PEVSIFPRKARSPPGEWGTATPDGREDQE SRGNP
5700	13751	A	6505	2	291	HEPQLNSNNVALHGAVIPGPPFLFGACIN LMNFMVALFIPEYKIARGVQKHTYKHN GSLTNT*RGSDIEDIEPLLRDSTIWELFSF EPPGNQCP
5701	13752	A	6506	1	267	PRFKLFPCLSLSS*DYR*VPAITPG*FLY FF*VKTGFFHVGQTGLELLTSGDPPTSAS QSAGITGMSHCTWPISFLYLWHTGGKKK EC

5702	13753	A	6507	1	216	HEWMGTRVSEWMDEWKEGWKMDGK VDK*MNGWMEGCLYQWLNTEILCQELI PYTCLCLFSGWIYIFKQSILD
5703	13754	A	6508	74	356	
5704	13755	A	6509	2	375	RHEVKPQWTPG*DTDHLPNLSVALGPTR QPGRQRPEGTQVPSIPASSPASQSQPPQ SQPPNPSLLHPRTPTPSLPIASLIPASPKT QTL*IPASEVGTVSNPTPWTRKLGPGEAN RLSLMV
5705	13756	A	651	3	556	LPTEVAAISFSLAIGKHSATVFPWAGKP PSRILPHLGPLLPOKASWPPLRPLVKPKF VKKRPKKFIRHQSDRYVVIKRNWRKPR GIDNRVRRRFKGQILMPNIGYGSNKKYTK HMLPSGFRKFLVHNVKEQGLEVLLMCN KSYCAEIAHNVSSKNRKAIVERAAQLAI RVTNPNARLRSEENE
5706	13757	A	6510	3	148	HERREVTVIRRGKHLRLVPTRWAGK GLLG*SICFWSFSLGHHWSVC
5707	13758	A	6511	50	255	LSMVSTVLVTTIMKLCYSY*K*QIQSWLPC LTHTKTHTHTHTHTHTHKVLHTLTCKQ YYAIGNVLSFY
5708	13759	A	6512	268	355	
5709	13760	A	6513	2	206	
5710	13761	A	6514	1	317	FFFFFFPLFRQCLTLSPRLEYSGTISAHCS LSQPGSSDPPTSALRVAETTGRHHAWLI FVF*VETGLHHVVLAGELMGSRNQPTS ASQSAGITGVNHRAWLW
5711	13762	A	6515	2	210	KEKIFPSPGFKHPPPPPF*KTPLKGKRIFFS PPRKNWPPQRIFKKAPSSSSSSSSSSSA QI*SFNSP
5712	13763	A	6516	674	985	WFFFWLCHPGWSAVAWWHDLSLQPPP PRLM*FSCLSLSNWDYRRAPPFLASFVF LVDTAFRHLGQAGLELLTSSDPPTLASQS AGITGVSHRTQLRSSFDS
5713	13764	A	6517	2	336	
5714	13765	A	6518	3	260	CLGLLVIFVCNFQSIRDYRRPPLH*LIFFV FLVEMGFYVYG*AGLELLTS*SARLLAS LRAGITGVSHRARPRSFVFGFGWQDHG
5715	13766	C	6519	38	478	
5716	13767	A	652	2	395	
5717	13768	C	6520	33	317	MLTNHLHHWPFFKNXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXTRCPRITTFRLG*
5718	13769	A	6521	1	253	RRLFFFFLRWSFALVAQAREQWCNLG*L QPPSPGFKQFFCFSLLNSWDYRRAPSCPA NFVFLVEMGLYIFKEWDNDGRMICEAF
5719	13770	A	6522	2	411	GVLRLSSACPQACPSSTSTGP*AALAGFT TTGSLCWAWTPPSSSFVSGSSREAPSGT ATTSWTRNVATATSATTANRMAMCTSTR TARLLLAPTNCSPRSKLTLPIDPCSGGC RLTCKDNTPLRGTOGRRQGT
5720	13771	A	6523	2	222	THIGLPKC*DYKCEPPVHRQFL*F*VETR FHHISQAGFKLTTSGDPPALASQSGRITG VTTRTQPLNGFYKVM
5721	13772	A	6524	2	261	VVVVSQYAAERPSVVAHACNPSTLGGR GRWLT*GQQVETSLASGYLPTLASPKCW DYRREPLRLACFNFFVETRNLTVLPISV QQ
5722	13773	C	6525	203	355	MVALSTRGQVHLSGAVVPSSFLIFLIAPS GEQEVDIAMVAGYAVTSVLL*

5723	13774	A	6526	2	671	GVGGVGRGPPAPPAPAGFPSTILW PSPPLL*LPPPGLGTGFLPFGHGCPPLSQS PWILFPWGGAQAQPL*P*PRHPCPPHPR QSYGRQLPTFWLAPPSFCLSLVFSSLSLIL SLSSVSRSVLLP*HPPPHISFHLGFLS*AS PISGVGGIKAFPLRFQPPF*PLIPTTPLSL PKMGALWGRL*HSTPAQAMGSRAPFSG LAQASTYLLQPFQVVGVS
5724	13775	A	6527	3	477	AGKFPLRSGHPCFLTVESVCSGPFKPSV IPLSPCGASAPSPRFLSPSPGLVRAVLHC TLLVAS*APPPASPPGVAVFSPVSIWHP RLPGSYGLCGQHLRDPKPRSRTHFRAG VPPLVSCSLPSPNLPLMTSGVQRPPKGLE NSLLQLADLNK
5725	13776	A	6528	1	381	
5726	13777	A	6529	1	2654	MSFFSTLKTALSLKEKLAATGVLVLICAL VGAGFAWERHQLKQAEKIGSLDQAVK ERDKSIMDLNQTETMKNKAEQHFSQEV KNESEQAKYADRQMERKAEVQKQLVA AGNVRQRIPADTQRLRESISEFNADAD KGIFMSDKVTVKQTINKATSIYKIEQITV GKPGSEQYRRAFELADQLGLKHPDCIEH VFPTYADEQCTHVLTEEDFFSTEEREGV DRCIGVICSSVDELFPNVPEYGGIGYQF LYEGDELKCYEHDIESKAKELTVNSNNT VQPVALMRLGVFVPKPSKSKGESKEIDA TKAFSQLEIAKAEGYDDIKITGPRLDMDT DFKTWIGVIYAFSKYGLSNTIQLSFQEF AKACGFPSKRLDAKLRLTHESLGRLRN KGIAFKRGKDAKGGYQTGLLKSWRADS KLWELFQLDYRVLLQHHLRALPKKEA AQAIYTFIESLPQNPLPLSFARIRERLALQ SAVGEQNRIKKAIEQLKTIGYLDCSIEKK GRESFVIHTYLIPAIQQHIIQCDFPLSHIL DFYSPSSTHRSCRASRSHQIESEAWLPIE AGNHQNDSGYNLNVEEIRVLYAWRMPK HVVTHLAKDQLHKVAQRANRMLNVL EQVQLQKDELHANEFYQVYAKAALAKL PLLTRANVDYANIIDIYEHARGVPKYRDR YSERGVSKTVSTVSLAHAMRAHPHLLM EDLRILVIDLDPQSSATMFLSHKHSIGVN ATSAQAMLQNVSRLEELFEFVPSVVP VDVMPASIDDAFIASDWRELCNEHLPQ NIHAVLKENVIDKLKSDYDFILVDSGPHL DAFLKNALASANILFTPLPATVDFHSSL KYVARLPELV/KLISDEGCECQLATNIEK QTNNWANP
5727	13778	A	653	1	1055	TDCRVDPVRPRVRVEHSIVGTRLVSCQ LQPSQPNADQGKLTMMRIAIVICFCLLGIT CAIPVKQAESGSSEKQLYNKYPDVA TWNPDPS/QVRQNLGPTGPFPSKVQR KGHGPHGMIWDGWKVDVDDPC/VDSQDS IGLGTTLDDVDDTDVSHQSDSHSHSDES DELVP/DFPTDLPATEVFTPVVPTVDTYD GRGDSVYGLRSKSKKFRPDQYDPAT DEDITSHMESEELNGAYKAIPVAQDLNA PSDWDSRGKDSYETSQLDDQSAETHSH KQSRLYKRKANDESNEHSDVIDSQELSK VSREFHSHEFHSHEDMLVDPKSKKEEDK HLKFRISHELDSASSEVN
5728	13779	A	6530	1	945	

5729	13780	A	6531	146	4368	LGFLRLSEMPRKQGDYRT/SDMEIRGR VEQRVGYTIEQINHMRDVFQTRLRRAED VFPPVIGVAAHKGGVYKTSVSVHLAQD LALKGLRVLLVEGNPQGTASMYHGW VPDLHIHAEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYDVVIDSA PNLGIGTINVCAADVLIPTPAELFDYT SALQFFDMLRDLLKNVDLKGFEPPDLAI LF
5730	13781	A	6532	820	2011	TTTLVRLPCRSPKRRIKALRSQRLGLPM MRVPSFRLRVTSPTFMKSLTWQVHLLVL MLLVMFWTCNPSVCTASYVAAMCWW QAPMAPAKPQPSRWKTSKARMYQSQK VAKTSTLTVLSLLLITVPAAYFTRLLMLL LPLMRVPSFRLRVTSPTSMKSLTWQVHL LVLMLLVMFWTCNPSVCTASYVAAMC WWQAPMAPAKPQPSRWKTSKARMYQS EKVAITSTLTVLSLLLITVPAAYFTRLLM LLLPLMRVPSFRLRVTSPTSMKSLTWQV HLLVLMMLVMFWTCNPSVCTASYVAA MCWWQAPMAPAKPQPSRWKTSKARM YQSEKVALTSTLTVLSLLLITVPAAYFTR LLMLLVSKSL/CTCSLNYNIGQIALSFSKA PDKGTEIAIERGANGDVLDMQSVGVYSQ LRRRYVLVASSDGTSTATFKMEDFEGQ NVPIRKGRNTIYVSRISVVDNGSGSLLH SFTNAAGEQITVTCSLNYNIGQIALSFSK APDKGTEIAIERATDDACTFIPVTRDQSDI YEVFNAGSSFSGSYAAGDVLDMQSVGV YSQLRRRYVLVASSDGTSTATFKMEDF EGQNVPIPKGRKNIYVNRISVVDNGSG SLLHSFTNAAATADACTFIPVTRDQSDIY EVFNAGSSFSGSYAAGDVLDMQSVGVY SQLRRRYVLVASSDGTSTATFKMEDFE GQNVPIRKGRNNIYVNRISVVDNGSGS LLHSFTNAAATADACTFIPVTRDQSDIYE VFNAGSSFSGSYAAGDVLDMQSVGVYS QLRRRYVLVASSDGTSTATFKMEDFEG QNVPIRKGRNTIYVNRISVVDNGSGSLL HSFTNAAAGEQITVTCSLNYNIGQIALSFS KAPDKGTEIAIERGSST
5731	13782	A	6533	1	3039	MLNVLTEQVQLQKDELHANEFYQVYAK AALAKLPLLTRANVDYAVSEMEEGYV FDKRPAGSSMKYAMSIQNIIDIYEHARGVP KYRDRYSEAYVIFISNLKGGVSKTVSTVS LAHAMRAHPHLLMEDLRILVIDLDPOSS ATMFLSHKHSIGIVNATSAQAMLQNVSR EELLEEFIVPSVVPBGDVMASIDDAFI ASDWK/ELCNEHLPVLKLISDEGCECQL ATNIGFMSKLSNKADHKYCHSLAKEVF GG
5732	13783	A	6534	1	2607	
5733	13784	A	6535	1	4557	
5734	13785	A	6536	3	2847	ELHAYAMSIQNIIDIYEHARGVPKYRDRIL AHAMRAHPHLLMEDLRILVIDLDPOSSA TMFLSHKHSIGIVNATSAQAMLQNVSR ELLEEFIVPSVVPBGDVMASIDDAFIAS DWRELCNEHLPQNIHVLKENVIDKLK SDYDFILVDSGPHLDAFLKNALASANILF TPLPPATVDFHSSLKYVARLHELVLKLSN EGCECQLATTIGFMSKLSNKADHKYCHS LAKEVFGDMLDVFLPRLDGFERCGES
5735	13786	A	6537	1	4236	
5736	13787	A	6538	65	316	
5737	13788	A	6539	54	265	

5738	13789	A	654	2	1103	PGRPTRPPTRGGGRAQHRLYQTL SQAS CSLLSQTPTRGKLTMMRIA VICFCLLGITC AIPFKQADSGSSEKHFVYNKY PDAVAT WLKP*PIFRRQNL LGPTEWLCPLKETNGL *TRRTL SKLRSNGKAMDHMDDMG*WK VDGWTMWDSQDSIDSNDSDDDVDDTD DSHQSDSHHSDESDELVTGFSTDLPAT EVFTPVVPTVD TYDGRGDSVVYGLRSKS KVKFRRPDIKYPDATDEDITSHMESEELN GAYKAIPVAQDLNAPSDWDSRGKDSYE TSQLDDQSAETHSHKQSRLYKRKANDES NEHSDVIDSQELSKVSREFHSHEFHSHED MLVVDPKSKEEDKHLKFRISHELDSASS EVN
5739	13790	A	6540	2034	2174	EMPGHARCYADQQR YRFLPGSEVLP/ASI NVAWRPVDNLNTCSTRSPE
5740	13791	A	6541	33	285	
5741	13792	A	6542	1	2448	
5742	13793	A	6543	1	2979	
5743	13794	A	6544	1	3276	
5744	13795	A	6545	1	67	MTKCSHL CNNYLF SWLRDNGILIATGER RNV RKQEYISRGYFTLKETVIDTSNGSRI SFTTRITGKGQQWLMKRLLDADVVRTTS IVMLAKVTFLSCITMSDFTFSGYELACFV THSGLSRSAGHILSQCANLAATTSEYFIH KPHRLITAETGYSQSTVVRAFREAVNKG ILSVEIVIGDHRERRANLYRFTPSFLAFAQ QAKNALIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDDVAIKNK KSQVKKTKRSVSGGAGTTS LKKLT SWIA KAKAKADNLRLSKKRTQKHEFKQKVEA AARKYAYLKNKRSPDIGGISNFDNLPHC MTVNEALNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACFGVGSV YMQTRYRGKLV SQGFVVQMILTPRAD GTFITSTDSETVHYHYGPKDLVTILFYIFI TIILHAVVQEYILDKISKRLHLSKVHHSK FNESGQLVVFHFTSVIWC FYVVVTTTPQA LTRVLNCLLALGSNAAVMGECGFAQLQ QTWASALADYAAAHKSMPRPEILASCH QTLNCLIESTRNSMDATNK/ADAGICRS RDDRERF*RCYASAFIPRDDPACSVGGSY R*CVITEF
5745	13796	A	6546	1	3435	
5746	13797	B	6547	9377	1600	MSDWSRV TGMKVHASAVAAPN*TGRH ARNKGRRITPSETLIISAATDSSIALLVAS MLLRVDSL SIAISVPLSGALENDRAI
5747	13798	A	6548	3	127	LFHPCQDSQQHH*CVCCRLTGHGAA*V HGPCQAVQTYRASH
5748	13799	A	6549	2	323	
5749	13800	A	655	3	267	TINPKLLKNHARGTPEVPNOKHHWSPKQ KPLLTKNPKNLPRWPVPIPPFPPEEKPR KFP*TPKRRIP*TKIGPLPSNPGYPTKPPF
5750	13801	A	6550	2	94	
5751	13802	A	6551	171	632	
5752	13803	A	6552	3	325	
5753	13804	A	6553	2	171	

5754	13805	B	554	104	1164	MCDEDETTA...CDNGSGLVKAGFAGDD APRAVFPISIVGRPRHQVGMVGMGQKDS YVGDEAQSKRGILTLYPIEHGIIINWDD MEKIWHHTFYNELRVAPEEHPTLLTEAP LNPKANREKMTQIMFETFNVPAMYVAI QAVLSLYASGRTTGIVLDSGDGVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATGRHPSILPWKRATSCQTGQV ITIGNERFRCPETFFQPSFIGMEVGGHFR PPYNSIMKCDIDIQEGPCMPNTVMFGGH PRLYPWEFADPHARKRFTGAGTPGTHEE SKDKDSFAPRRSGKILG*
5755	13806	A	6555	1	308	LRPWC/GHLRT*AQYHTLRAARLDPNFA IA*MEAKATDGPPPF/VRGFPTIYFSPA NNRLHPRTSEGGRDLSDFISYLHVEATNP PVIQEV*PKKK/KKAQEDL
5756	13807	A	6556	2	589	AIRTAKEKFVMQEEFSRDGKALERFLQ DYFDGNLKRYLKSEPIPESNDGPVKVVV AENFDEIVNNENKDVLEFYAPWCGHCK NLEPKYKELGEKLSKDPNIVIA/KMDAT ANNVHSPYEVRGFPHILLSKPNKKLNP KKYEGGRELR*FLLAIYQREATKPPVVIQ V*FIPKYRRRRHQEDLLKPVAQPTPL
5757	13808	A	6557	1	129	
5758	13809	A	6558	23	115	
5759	13810	A	6559	1	1582	GRGWRAVLGWSRRRSGLPATVGSMA LLFLLPLVMHGVSRAEMGTADLGPSSVP TPINVTIESYNMNPVYWEYQIMPQVPV FTVEVKNYGVKNSEWIDACINISHHYCNI SDHVGDPNSLWVRVKARVGQKESAYA KSEEFVACRDGKIGPPKLDIRKEEKQIMI DIFHPSVFNNGDEQEVDPETTCYIRV YNVYVRMNGSEIQYKILTQKEDDCDEIQ CQLAIPVSSLNSQYCVSAEGVLHVWGV TEKSKEVCITIFNSSIKGSLWIPVVAALL FLVLSLVFICFYIKKINPLKEKSIILPKSLIS VVRSATLETKPESKYVSLITSYQPFSEK EVCCEPLSPATVPGMHTEDNPGKVEHT EELSSITEVVTEENIPDVVPGSHLTPIER ESSPLSSNQSEPGSIALNSYHSRNCSESD HSRNGFDTDSSCLESSESSDSEFPNNK GEIKTEGQELITVIKSPPPSCYDKPHVL VDLLVDDSGKESLIGYRPTEDSQRNHFH EISLSCTQL
5760	13811	B	656	197	404	EQQLQAQHLSHGHGPPVPLTPHPSGLQ PPGIPPLGGSAGLLALSSALSGQSHLAK DDKKHHD AEHHRX*
5761	13812	A	6560	69	523	PLGCASSQISASRNTLCTTASSCCPQVL AHSKAAEYMTRWKVQQMPHSQDRAL QSVFCAPFHS**LVALPTGHR*MTPAQFS ECFQATSGGSD*DPFLAPSFLVPGLPVAP GLLLPLGPVHSRATMEEGQATHEELTVFI GLRPGVRGS
5762	13813	A	6561	101	1469	RTHPTFPHPGTGPTSAPPSGALEGTAGTI TSNEWSSPTSPEGSTASGGSQALDKPIDN DGEGVWSPDIEQSFQEAIAIYPPCGRRKI ILSDEGKMYGRNELIARYIKLRTGKTRTR KQVSSHQVLARRKAREIQAKLKDQAAK DKALQSMAMSSAQIISATAFHSSMRLA RGPGRPAVSGFWQGALPGQAETSHDVK PFSQQTAVQPPLPLPGFESPAGPAPSPS APPAPPWQGRISVASSKLWMLFSAFLE QQQDPDTYNKHLFVHIGQSSPSYLRPYL EAVDIRQIYDKFPEKKGGLKDLFERGPS NAFFLVKFWADLNTNIEDEGSSFYGVSS QYESPENMIITCSTKVCSEKQVVEK VET EYARYENGHYSYRIHRSPLCEYMINFIHK LKHLPEKYMMSVLENFTILQVVTNRDT

						QETLLCIAVVEVSASEHGAQHIIYRLV KE
5763	13814	A	6562	1	1290	
5764	13815	A	6563	604	1047	SNNRTDNPTSVAYLSKETDVVAKGWPH CLWVVAVAILVLEAIKIIQKDFTVWT SHDVNGILGAKGNSWLSKRLLRYQAL LLEGPVLIHTCV ALNPAIFLPEDGEPIKH DYQQIVAQTYVT*EDLLEVPLANPDLNL YTNGSSFV
5765	13816	A	6564	1	1410	
5766	13817	A	6565	510	755	
5767	13818	A	6566	59	411	SWPSDKQTLVVQRGQKMEQANHPDPTD HMSQLMWT/VLPQGFDRDSPHLFGQALA QDLGHFSSPGTLVLQYVDDLLLATSEA SCQATLALLNFLANQGYK/LSRSKAQL CLQQVKYLCL
5768	13819	A	6567	1	565	
5769	13820	A	6568	126	492	CNNSMTSLQVRLKVCPRPCRTSM/LPIRI *KLPQVCLDLL*IREGEWDMYPCWAKFP CPYSLKGT*PIAWGILWSFGDFAY/IPLM QQQKH*FSSQNTRRNEEGQI*WPLLMS QKPAPLPVV
5770	13821	A	6569	1	342	
5771	13822	A	657	2	651	LSRVLEFEFQFLQAQYHSLKLECEILAS EKTEMHRHYVMYYEMSYGLNIEMHKQ TEIAKRLNTICAQVIPFLSQEHQQQVAQA VERAIQVTMAELNAIGVRGLPGLPPTQQ QLQAQHLSHGHGPPVPLTPYPSGLQPPG\ IPPLGG\SAGLLALT\SALDGQSHLAIKDD KKHDA*HHRGDRPGKPD*DFVLILLQC CKVVCIAKESPNLYREQT
5772	13823	A	6570	55	219	LGNKHLGSDPRGSWVTGEYIFLRPIIA A*GRQ*DFLPPELWWTSLNNSWAFS
5773	13824	A	6571	339	1371	ASHPLRGLLCGPSLPNEPCPLLHGTQSHR PLKG*GVRAHSTGLAGSSTCRPLRDPLG EASWAPESAQGL*IHQSALCI*LKLKPAG QRAKLGDRLDIPDRKSSTILGRAGDLQ PAMPEPPTLSVGSCAAQASPMNPAPCST APSPIDHSRAEECGRIARDWQAAPPAGP CGIHWVKPAGLLSLLRDCKYTNRHSVSS SRFANTNQHPASSSGFVNAPIDTLYLANL VGTWRTFVASSGIVNAPISTLSKQTTWL YQSAGCGKESTQASGAQTGGTSFKSLET TGSISEASSAKHCTELFSRFTTFNPDSVPS DGVVGDTAGTVWPGVLKGEPCHLGTCTY RCVLDPHPTPSEDTIQGIHVQVCYMSTL HDADVCDTNDPVTHTKKYIYSTEIFTS NNPELRSEDETVFRALEKWKTSQTIGE MDFYICNDPHPDALYQNGLSKMQDTV SLSVFSPSVAA
5774	13825	A	6572	749	1002	QLKKGTSNLLVSKPSPVWIPTGTLTQIMG TGVANIC*PVF*KD*GELGKMNYAMMS TITQGKEENPAFLKWLWEALRKYTPLSP
5775	13826	A	6573	1	1632	
5776	13827	A	6574	307	543	



5777	13828	A	6575	1	1149	
5778	13829	A	6576	119	409	GDICHHLGLTPVGSLSLSCSR*QVA*VG AVTAATIGTGILLQQLAFLVCNWLLLSG SSENFPRSALICFKSEREKGTICVGPNSP PPTACKGHN
5779	13830	A	6577	1	2433	
5780	13831	B	6578	97	1065	MHAVHTSLLVERTILTTTKERGSTLQYPL RPGAHKGLQDIVKRFAQALIRKCSSPC NTPILGVQKPNGQWRLVQDLRLINEAVI PLYPVVNPYNLLSQIPEAEWFTVLDLK DAFFCIPLHSDSQFLAFEDPTDHTSOLT WTVLPFGFRDSPPLFGQALAQDLGHFSS PGTLVLQYVDDLLATSSEASCQATLD LLNFLANQGYKTHSRSDAPVGFIDRHL VATEKIPRGREPLSSLAVYTRGRPTRTGA RRTIVSRIRRDFFRYRYLAQREPLYQQ SLLIHLQLDSQPALSVMIGKVPNVVELTP NFGTAAQV*
5781	13832	A	6579	1	2403	
5782	13833	A	658	455	1033	GLYFGKVGEVIEQVKAFDELKALIAFFPL SSLSFLAPFVCLLNLLFCFRLPLLSCLFSP GCRLHRHHCHHYLLLLLFLSHHHHQ QQQLQAQHLSHGHGPPVPLTHPSGLQP PGIPLGGSAGLLALSSALSGQSHLAID DKKHDAEHHRGERPGKPD*DFVLILLQ CCKVVCIAKESPPLYREQTMR
5783	13834	A	6580	1	2838	
5784	13835	A	6581	1908	4698	SNDRTEDDCGKHPFMSSPPTPWPVCLII EGQEIDFLDGTTFVLPCLGRLSSRSV TIQILGQPVTTRYFSHLLSCNWETLLFSH AFLVMPESPTPLGRDILAKAGAIISMKT GNKLPICCPLEGINPEVWALEGQFGR KNAHPLQIRLKDPISFYQRYPLRPEAH KGLQDIVKHLKAQDSVRKCSSPCNTPI GVQKLNSQWRLVQDLRLINEAVIPLYPV VRNPYTLLSQVPPEAEWFTVLDLKD
5785	13836	A	6582	1529	2945	
5786	13837	A	6583	3	154	
5787	13838	A	6584	3	425	
5788	13839	A	6585	3	223	
5789	13840	A	6586	3	330	
5790	13841	A	6587	50	1740	RSPHCCLTAHLTMASAAARLTMMWEEVT CPICLDPFVEPVSIIEGHSFCQECISQVGK GGGSVCAVCRQRFLLKNLRPNRQLANM VNNLKEISQEAREGTQGERCAVHGERLH LFCEKD GKALCWVCAQSRKHRDHAMV PLEEAAQEYQVRPKRHLEKLQVALGELR RKQELAEKLEVEIAIKRADWKKTVETQK SRIHAEFVQQKNFLVEEQRLQLEKED EREQLRILGEKEAKLAQSSQALQELISEL DRRCHSSALELLQEVIVLSESWNLKD LDITSPELRSVCHVPGLKKMLRTCAVHIT LDPDTANPWLILSEDRRQVRLGDTQQSIP GNEERFDSYPMVLGAQHFSKGHYWEV DVTGKEAWDLGVCRDSVRRKGHLLSS KSGFWTIWLWNKQKYEAGTYPQTPSHL QVLPCQVGIFLDYEAGMVSFYNTDWHGS LIYSFSECAFTGPLRPFSPGINDGGKNT APSNPLVPLNIGSQGSTDYWMAFSGLP LSPHWAPASSATKPWPLFPHGTLEPPLSS AEASRD PQASFSREVTSPINIPAPDGVV
5791	13842	A	6588	2	472	
5792	13843	A	6589	1	239	QCCSGGTHGNPAIGDRMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
5793	13844	C	659	178	360	MERPERKIXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXS

					YYSFKNLI*
5794	13845	A	6590	1	834
5795	13846	A	6591	1	702
5796	13847	A	6592	1	1623
5797	13848	A	6593	1	1132
					MEEEEIAALVIDNGSGMCKAGFAGDDAP RAVFPISIVGRPRHQGVVMGMGQKDSYV GDEAQSQRGILTLKYPIEHGIVTNWDDM EKIWHHTFYNELRVAPEEHPVLLTEAPL NPKANREKMTQIMFETFTNPAMYVAIQ AVLSLYASGRITGIVMDSGDGVTHTVPI YEGYALPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIKEKLCYVALD FEQEMATAASSSSLEKSYELPDGQVITIG NERFRCPEALFQPSFLGMESCGIHETTFN SIMKCDVDIRKDLANTVLSGGTTMYPG IADKMQKEITALGPSTMKIKIAPPERKY SVWIGGSILASLSTFQQMWISKQEYDES GPSIVHRKCF
5798	13849	B	6594	635	646
					MCDEDETTALVCDNGSGLVKAGFAGDD APRAVFPISIVGRPRHQGVVMGMGQKDS YVGDEAQSQRGILTLKYPIEHGIVTNWDD MEKIWHHTFYNELRVAPEEHPVLLTEAP LNPKANREKMTQIMFETFTNPAMYVAIQ QAVLSLYASGRITGIVLDSGDGVTHNVPI IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATAASSSSLEKSYELPDGAGHH HRQRALPLPGDPSFIGMEVGGHFTRPY NSIMKCDIDIQEGPFMPTTFMSGGTHDVP WESLTACRKEITRAGTPAPMEDQDSFAP AGAQNTRVWIGGSILASLSTFQQMWITK QEYDEAGPSIVQPQMLLDTLHLQARDFS RTTNLLNGGGG*
5799	13850	A	6595	1	1284
					MGDTPRQFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFPIS VGRPRHQGVVMGMGQKDSYVGDKIAQ SKRGILTLKYRIEHGIVTNWEDMEEIWL HTFYSELHVAPEEHPLLLTEASLNPKAN HEKVNQIMFETFTNPAMYVAIQALLSLY ASGRITGIVMDSGDGVTHTVPIYGGYA LPHTILHLDLAGPDLTDHLMKILTERGYS FTTAKREIVHDIEENLCYVALDFEQEM AMVASNPILLEKS*ELPDGQVITIGNEARF RCPEALFQPSFLGMESCGIHETTFNSIM KICDVDIRKDLANTVLSGRTPPCTLGIA DRMQKEITALAPSTMKMKIAPPERKYS VWIGGSILASLSTFQQIWISKQEYDESGP SIVHRKCF
5800	13851	A	6596	1	370
					ETESRSVAQAGVQWHNLGSLQSPSPGFK RFSCSLSPSNWDYRHPPSCPANFCIFVET RFHHVGGAGLKLTSQDPPTLAS*IAGIT GMSHCAWPSLHIWTLFFFACPRRWGTG QVLLAAIFSQ
5801	13852	A	6597	2408	2810
					IHTHTHTHTHTIFFLKRFSALVAQARVQ WRDLCSLKPPPEFKQFSCSLSPSS*DYR CPPPCPANF/SFFFVFLVETGFHHVGGAG LKLLTSSDSPTLASQNAAGVTGMSHCAWP QSNKYYQNNFTMIQEQQQQKE
5802	13853	A	66	275	577
					GGWITRSGVQDQSGQHSVDVSL/LKKYK KLTKYGGVLL*SQLS/RLRQDNHMPNG GRSCS*PRQHHCTPAWVTVRDSISKKKK KKNNKKKKEKKGKKALLEPG
5803	13854	A	660	365	800
					INVNFLEFYMTDITCFLFSYSLTLMSPYIL DVLLLSLLLFLFHIAGMHILTFINHDI*VV HSFYLR*HAMEITVYEFICLRIRYPFKAS KIFSMYNATVLFHI*CDR*LGS*IGILERS

						VGVC SVMVCIVIRYVISSVDAP
5804	13855	A	6600	111	426	RIYKDRAGSPAHSQCQRDPLRTSPRGPH SLPWGQAAQSDAETEATHMGAPSLGP AQLPLEPGGRGSHTTSVDSRHDSVEGFR DSRQTESPWNEN*NLLDYGSL
5805	13856	A	6601	1	2219	
5806	13857	A	6602	1	221	
5807	13858	A	6603	2	217	
5808	13859	A	6604	101	456	
5809	13860	A	6605	62	558	
5810	13861	A	6606	2	178	
5811	13862	A	6607	1	194	
5812	13863	A	6608	59	132	
5813	13864	A	6609	3	104	
5814	13865	A	661	2	58	
5815	13866	A	6610	2	620	GFRPGDPRVRETGVLPKPGMLVTFAPVN VTGGVKSVMHHEALSEALPGDNVGFN VKNVSVKDVRRGNVAGDSKNDPPMEA AGFTAQVILNHPGQISAGYAPVLDCHTA HIACKFAELKEKIDRRSGKKLEDGPKFL KSGDAAIVDMVPIARPMCVESFSDYPPL GRFAVRDMRQIVAVGVIKAGDKKAAG AGKVTKSAQKAQKAK
5816	13867	A	6611	293	384	
5817	13868	A	6612	39	543	QVAMGNLSGLRLAAGSCFRLCERDVSSS QRLTRSSDWKGUNGFC\TKPTGKVP GAP IPALTNRVPFNTKP\TDW\QKKRPLIWSRS PSKMEDEIPQ\SLSPLEDALNACQRTKMP SERSSLSQWICPDGGMDCTFMVIEGQK\ AA\QRHDDFTQA*TLEKKARLERGKQL
5818	13869	A	6613	1	194	
5819	13870	A	6614	71	1145	NLRREPTNSRTLTVGATAGSITMKRLVC VLLVCSSAVAQLHKDPTLDHHWHLWK KTYGKQYKEKNEEA VRRLIWEKNLKFV MLHNLEHSMGMHSYDLGMNHLGDMTS EEVMSLMSSLRVPSQWQRNITYKSNPNR ILPDSVDWREKGCVTEVKYQGSCGACW AFSAVGALEAQLKLTGKLVSLSAQNLV DCSTEKYGNKGCNGGFM TAFQYIIDNK GIDSDASYPYKAMDLCQYDSKYRAAT CSKYTEL PYGR\*DVLKEAVANKGPVSV VVDARQPSFLPLQESGVYYDPSICTQNV NHGVLVVG YGDLNGK\EYWL V*NSWGP NFGEEGYIR/LWARNKG NHCGVASFPSY PEI
5820	13871	A	6615	2	289	
5821	13872	A	6616	2	125	
5822	13873	A	6617	9	106	
5823	13874	A	6618	2	505	
5824	13875	A	6619	1	104	
5825	13876	A	662	218	342	
5826	13877	A	6620	1	109	
5827	13878	B	6621	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVKFKVRCSRYLYTLVITDKEKAEKL KQSLPXX*
5828	13879	A	6622	239	449	NCGNQRTSLRHRPTKRMPSQDPRKIR TLVKFKVRCSRYLYTLVITDKEKAEKLK QSLPPGLAVKELK
5829	13880	A	6623	1	104	
5830	13881	A	6624	1	109	
5831	13882	B	6625	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVKFKVRCSRYLYTLVITDKEKAEKL

						KQSLPXX*
5832	13883	A	6626	239	449	NCGNQRTSLRHRPTKRMPSQDPRKIR TLVKFKVRCRYLYTLVITDKEKAE/CLK QSLPPGLAVKELK
5833	13884	A	6627	2	129	YGPTHASGAMLRSCAARLRTLGAICLPP VGRRLPEASRDPS
5834	13885	A	6628	1	289	
5835	13886	A	6629	6	418	RRLMRDFKRLQEDPPVGVSGAPSENNIM QWNAVIFG/TFKLVEFPPEYPNKPTVRF LSKMFHPNVYADGSICLDILQNRWSPTY DVSPILTSIQSLLDEPNPNSPANQAQQL YQENKREYEKRVSAIVEQSWNDS
5836	13887	A	663	527	665	
5837	13888	A	6630	3	330	ARRRLMRDFKRLQEDPPVGVSGAPSEN NIMQWNAVIFG/YADGSICLDILQNRWSP TYDVSSILTSIQSLLDEPNPNSPANQAQ QLYQENKREYEKRVSAIVEQSWNDS
5838	13889	A	6631	51	418	
5839	13890	A	6632	3	141	
5840	13891	A	6633	1	581	HSDSAAAPGGGGAARDFFFQTDRRGSC GACSTPARRRLMRDFKRLQEDPPVGVSG APSENNIMQWNAVIFGPG/GTPFEDG/T F*L/VIEFSEEYPNKPP/TVRVFIPKMFSP NVYA*WVGICLADILQNRWESQHMDVS FLSLTFNSVSGWDEPNP*QSSPIAQAQQL YQENKREYEKRVSAIVEQSWNDS
5841	13892	A	6634	2	266	YCGPL*SVWVARNPPGFVFEFEDPRDA AGVV*ELDGRTLCPGPSWGHPR*DDYC RRGLPPRRRPPRRRLNLSRSRSLYSPWT LSL
5842	13893	A	6635	3	164	
5843	13894	A	6636	1	947	IFLVFFITEMHRDSCPLDCKVYVGNLGN NGNKTELERAFGYYGPLRSVWVARNPP GFAFVEFEDPRDAA*V*YLCPLRTLGC RVRVELSNGEKRSRNRGPPPSWGRRPRD DYRFPSMLFSLSLLSNLQIGSSHLDLPHI PGQSAQLFIYQMSSQQLQQPSANKKAG KIHNTPFANQLNPTATSGQNLFRQILGP SVRAGLTFTISSLLKPKTNLQGEASLAA GAGPFLEIGEERDRCLGREITSRPDPSLGL VVDLGQMKGNRRQFAREVYVRKLLHLT GVCTENFKFCLRLHKLGAFLRCFSCSNL FVS
5844	13895	A	6637	1	282	
5845	13896	A	6638	116	561	PLDLEMHRDSCPLDCKVYVGNLGNNG NKTLELERAFGYYGPLRSVWVARNPPRP LAFVEFEDPPRMQLDAVPRS*DGKNTNV ACPCKEWELVRMGEK/RSRNRGPPPSL/ WGRRPDGFIRREGVPPTLFGSPRKGG RFLFAARSRLS
5846	13897	A	6639	126	376	VLLARLQANGANTVELSAEWTFPSGYV GSVLPQGHREPNA/CLSFSKFRVLGSAP FLINRRTASNCVNRYCRLAATWRAVLPL
5847	13898	A	664	1233	1706	CLVFWLLYYPGQLPFFHLLPHSLGSGQQ SSEESAATPSLAEGRREAAFRCPAGLA RQAWRPHARLPGPAAPLAAPSLAPLPTG RSGRWLPMCAASC*SPSPAMSVYPQRR LGQGGAEDEGGPVSRGCRAPGPQRPLA APGEQTAARTQAICLIW
5848	13899	A	6640	464	781	AFAFTKDRQLGSSKKRRMSSRFASSAAK CRAVRPLLRSRFPVPMPPGPWVSSTK LGSRLGRHQASCRG*SQRAR*SGLTGPT HMEPNKVRSTGLKFLPAQQS
5849	13900	A	6641	201	318	EINLTNFCFSSRSDVS*RESPFSRELHRIS SISLEPG

5850	13901	A	6642	1	1714	
5851	13902	A	6643	1	789	
5852	13903	A	6644	1	293	SPEMESHPIQAGVQWHNHSSLQPEIPGL KQSSHLSPSSWDHR*EPLPWPKNIFKM LIL*IGFSHVIGNNGTYLYQSINNVEGPLK RSQKDRSCGN
5853	13904	A	6645	1	252	
5854	13905	A	6646	1	1974	
5855	13906	A	6647	3	320	
5856	13907	C	6648	238	324	MADLPFLVEFSCFIYFNGSFMFSQKK*
5857	13908	A	6649	1	1088	
5858	13909	A	665	598	1159	CRQTGVKIYDVWFFWLLYYPGLQLPFHL LPHSLGSGQQSSESAATPSLAEGRREAA FRCGPAGLARQAWRPHARLPGPAAPLA APSLAPLPTGRSGRWLPLCAASC*SPSP AMSVYPQRRLGQGAEDSEGGSVSRGC RAPGPQRPLAAPGEQTAARTQASVYLL PHSPPLLSALHIHLLPPS
5859	13910	A	6650	1	368	
5860	13911	A	6651	3	243	
5861	13912	A	6652	24	288	
5862	13913	A	6653	2	272	
5863	13914	A	6654	965	2737	AASPGVLVCPQARTYIQLPPLDVLQTP LPTTGFPAAIDLLGRMLVLDSDQRVSA EALAHAYFSQYHDPEDPEAEPPGPGCGR HKLTLSLHLELTYQEVLSWDEAAGRRS PPPALPPRLRSPSGGPPPAASGFRRW AAPGPAMSSPPPARSGFYRQEVTKTAW VRAGACAGCPAFPLSGPPRSSAVDGRGT AKVAIKKLYRPFQSELFANPARVLCCILN PMWPPQVIGHAEAGSVR*QRSGPSHSYL VMPFMGTDLGKLMKHEKLGALRGCAE ACHHAWEGGAQWPPFLCPHRS LGVP*N PPPQFFPQILDFGLARQADSEMTGYVVT RWSHPVPLPTELTRASISVDIWSVGCIMA EMITGKTLCSPPGGGGSGGPDLPWPPSCVP DLGADLDQLKEIMKVADLGLGVGPSFPL PTQAKNYMKGLPEWSVGPPVWPDPAPS PAAVNLLKMLVLDAEQRTVAGEALAH PYFESLHDTEDPQVQKATTDGPSLPSDP HASPGLHGLDVIAISSGATLTCGMAAV HTGPKVWAHRWPEDWGVAFALQTPRPP RLSPQVFLRPGRVGLGAALDPDPGWGA GRDL
5864	13915	A	6655	3	229	
5865	13916	A	6656	27	142	
5866	13917	A	6657	3	308	
5867	13918	A	6658	192	310	
5868	13919	A	6659	88	1506	ACGRFGFPEGPEGGRGRHVRAARGPVG PRAGEGPCAAWVGVPGSAPGTSLREG PGAGAPQRPAGGRASGRAARSPEARA EGAPSPVVGAPPAGSAGWAAPGPAMSS PPPARSGFYRQEVTKTAWEVRAVYRDL QPVGSGAYGAVCSAVDGRGTAKVAIKK LYRPFQSELF AKRAYRELRLKKHMRHEN VIGLLDVFTPDETLDFTDFYLVMPFMG TDLGKLMKHEKLGEDRIQFLVYQMLKG LRYIHAAGIIHRDLKPGNLAVNEDCELKI LDFGLARQADSEMTGYVVTWRWYRAPEV ILNWMRYTQTVDIWSVGCIMAEMITGKT LFKGSDDLQDLKEIMKVGTTPAEFVQR LQSDEAKNNMKGLPELEKKDFASILTNA SPLAVNLLKMLVLDAEQRTVAGEALA HPYFESLHDTEDPQVQKYDDSFDDVDR TLDEWKRVITYKEVLSFKPPRQLGARVS KETPL

5869	13920	A	666	358	644	RRSLALSP...ESDVISAHCKLCLPGFTPF SCLSLSSWDYRCPPLANFFVFLVET GFHRVSQDGLDLTS*SARLSLPCWDY RCEPPRPA
5870	13921	A	6660	71	921	
5871	13922	A	6661	2	310	
5872	13923	A	6662	5517	5831	
5873	13924	A	6663	1	625	CKFIRVMAHTRLRLPLRRKKAHLMEIQ VNEGTVAEKLDWARERLEQQVPVNQVF GQDEMIDVIGVTGKGYKGVTSRWHTK KLPRKTHRGLRKVACKDGKLIKNNAST DYDLSDKSINPLGGFVHYGEVTNDFVML KGCVVGTKKRVTLRKSLLVQTKRRAL EKIDLKFDITTSKFGHGRFQTMEKKAF MGPLKKDRIAKEEGA
5874	13925	A	6664	1	1261	MSHRKFSAPRHGSLGFLPRKRSSRHGK VKSFPKDDPSKPVHLTAFLGYKAGMTHI VREVDRPGSKVNKKEVVEAVTIVETPPM VVVGIVGYVETPRGLRTFKTVFAEHISDE CKRRFYKNWHKSKKKAFTKYCKKWQD EDGKKQLEKDFSSMKKYCQVIRVIAHTQ MRLPLRQNKAHLM*IQVNGGHCGRPS WDWPPREGLKQOGTVDPVLGRNMID VIGVTQGPKGKGGHPVVWHTQESCP KD/HHPRACRKGHVLGAWHPARVAF SVARAGQKG\YHHRTEITKKT/YKIGPG LSPLFRATAKVIKGTIASTDYDLF*QEASTP PGGFVHYGEVTNDFVMLKGCVVGTKK RVTLRKSLLVQTKRRALEKIDLKFDIT SKFGHGRFQTMEKKAFMGPLKKDRIA KEEGA
5875	13926	A	6665	1	168	
5876	13927	A	6666	3	203	
5877	13928	A	6667	3	523	LQFFRRSEVKMKNHLLFWGVLAVFIKA VHVKAQEDERIVLVDNKCKCARITSRIIR SSEDPNEDIVERNIRIVPLNNRENISDPT SPLRTRFVYHLSDLCKK\CDPTEVELAD NQIVTATQSNICGWMTPQSTCYTLSTG NKCYTAVVPLVYGGGETKMVETALTPDA CYPD
5878	13929	A	6668	3	276	
5879	13930	A	6669	2	152	
5880	13931	A	667	55	288	PFKKGGFFNGNLPTTFGKLGKFKPLNL FPGGPPLPHGGLKKGPGAPQVPPLFLKK PQTSP*GLREGPPPLKKFYLF
5881	13932	A	6670	1	936	
5882	13933	A	6671	1	1023	
5883	13934	A	6672	106	125	KYLEQCLKHGKSS*HSILQANFFASEND RAKMK*KPCFYKCF*AITFLREDWDYRR EPLRLAYPVYFLTCKIRIMYTHLKDYTG H
5884	13935	A	6673	3	155	
5885	13936	A	6674	3	266	
5886	13937	A	6675	5	160	RDLGSLQPPPPGFK*FSCLRLPSPQVQRC CVPSPWLLEQMITAWGASIHNR
5887	13938	A	6676	1586	2220	
5888	13939	A	6677	3	441	
5889	13940	A	6678	1	91	
5890	13941	A	6679	2	226	
5891	13942	A	668	2	385	ARGEPTMELSHADTTNVKAAWGWVGA HAGE*GADVLVRMVLCLPTIWTYFPYFD LSHGCAQVNGHGKKVADALTNVHV DDMPNSLIGLSELHAH*LLVDPVNFKLL NHCLLGTLADHLLDEFTPAV
5892	13943	A	6680	3	187	
5893	13944	A	6681	2	209	

5894	13945	A	6682	2	702	FVSVPSVLLGLQFWRSERD/TARLQ SAR WRVERGRLKELSRQRPRRREEVVVGR EVCRTMEVRASLQKIVSNGDEQLEKA MEEILRDFEKRPSLLVDCQSSSEISDHSF GDIPASQTNKPSLQLILDPSNTEISTPRSS PGGLPEEDSVLFNKLTYLGCMKVSSPRN EVEALRAMATMKSSSQYPPVTLYVPN VPEGSVRHLSLLGGGEDVIASSGVELTV NSHCRHAE
5895	13946	A	6683	3	497	
5896	13947	A	6684	1	224	
5897	13948	A	6685	1	789	
5898	13949	A	6686	1	7500	
5899	13950	A	6687	1	8175	
5900	13951	A	6688	3	598	QCGGIRATTMAMSFEPWPQ\YRFPFFFT LQPNVDTRQQLAAWCSLVLSFCRLHK QSSMTVMEAQESPLFNNVKLQRELPVE SIQIVLEELRKKGNLEWLDKSKSSFLIMW RRPEEWGKLIYQVWSRSGQNNVSFTLYE LTNGEDTEDEEFHGLAEKPLLLRALQ/CP YSREHKAEIHHCSGDGRGVQVLLGRDLS PFTS
5901	13952	A	6689	2	356	
5902	13953	A	669	787	896	LLYNIYCGEKKREERKD*PGQHGETPSL QKIQKLAG
5903	13954	A	6690	2	123	
5904	13955	A	6691	161	464	
5905	13956	A	6692	3	86	
5906	13957	A	6693	3	85	
5907	13958	A	6694	2	201	
5908	13959	A	6695	1	119	
5909	13960	A	6696	1	3414	MEPNDSTSTAVEEPDSLEVLVKTLDSQT RTFIVGAQMNVEKFEKHIRASVSIPSEKQ RLIYQGRVLQDDKKLQEYNVGGKVIHL VERAPPQTHLPSGASSGTGSASATHGGG SPPGTRGPGASVHDRNANSYVMVGTFN LPSDGSADVHINMEQAPIQSEPRVRLV MAQHMIRDIQTLLSRMETLPYLQCRGGP QPQHSQPPPQPPAVTPEPVALSSQTSEPV ESEAPPREPMEAEVEERAPAQNPELTPG PA
5910	13961	A	6697	1	441	
5911	13962	A	6698	2	180	
5912	13963	A	6699	1	143	
5913	13964	A	67	1016	1461	VSHSHLSSPQFNHSLNRRPTRIPLSPQPK* GPAYSRPPVWTPAEPEALRWGRHRGP*K ARGSRPSSAHSGWRPRGEAPHRTGTAQP PTAVPCRRHLGEDSTPGPPGALGGVGF PSASP/PVPTPT*TQTGRRPETQLRQQTPR GAPRA
5914	13965	A	670	539	786	SIGRLRRVGHLRSGVRDQPGQHGGTPSL LKIQKFAGHGGAFLYSQVLGRLRQENRL NSRGGGCSESGSQHYTPAWVTE*DSI
5915	13966	A	6700	2	1069	SLVERLKMAASQAVEEMRSRVVLGEFG VRNVHTTDFPGNYSGYDDAWDQDRFEK NFRVDVVHMDENSLEFDMVGIDAAIAN AFRRILLAEVPTMAVEKVLVYNNTSIVQ DEILAHRLGLIPIHADPRLFEYRNQGDDE GTEIDTLQFRLQVRCTRNPAAKDSSDP NELYVNHKVYTRHMTWIPLGNQADLFP EGTIRPVHDDILIAQLRPGQEIDLLMHCV KGIGKDHAKFSPVATASYRLLPDITLLEP VEGEAAEELSRCFSPGVIEVQEVQKKV AQSCPTPRLDTFVSREIFRNEKLKVVRL ARVRDHYIFSVES\TGVLPPDVLVSEAIK VLMGKCRRFLDELDAVQMD

5916	13967	A	6701	197	310	WLCYIIYK*YDNWWHSMCFSKPLYPEIV SLNYILLKG
5917	13968	A	6702	3	67	
5918	13969	A	6703	3	517	
5919	13970	A	6704	150	840	GSLLSPDMANKGPSYGMSREVQSKIEKK YDEELEERLVEWIVQCGPDVGRPDGRGR LGFPVWLKNGVILDRL*TTFTPDASKPV KVPEKPPSCSSSKTEPLPHFLKAAEWDY GVRPKSNIFQDL*TSKKGKDMGSSSRGP LMAFGQLWQVTKNVDGHYRGDPNWFY ERKPQQHKREFHRRALQKKGACPLAL PDGAANRRGPPQARH*QGYGTTLGQIHK LEAERAKP
5920	13971	A	6705	3	842	
5921	13972	A	6706	1	570	
5922	13973	A	6707	1	1437	
5923	13974	A	6708	3	286	
5924	13975	A	6709	172	364	FYLYLVMLCFIEPVKLLIVGAYIL*LLKT IHEFHNQCFVDTKSLKGRHFKEYVFFTL NMFHR
5925	13976	A	671	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAHFGKEFTPEVQASWQKMTGVASA LSSRYH
5926	13977	A	6710	1	683	
5927	13978	A	6711	18	292	
5928	13979	A	6712	1	687	
5929	13980	A	6713	1	119	
5930	13981	A	6714	1	339	
5931	13982	A	6715	3	470	
5932	13983	A	6716	2	2942	TGAPAWPSRRLRDL PAGGMWRLRRAA VACEVCQSLVKHSSGIKGSPLQKLHLV SRSIYHSHHPTLKLQRPQLRTSFQQFSSL TNLPLRKLKFSPIKYGYQPRRNFWPAL ATRLLKRLYLILGSAVGGGYTAKKTFDQ WKDMIPDLSEYKWIVPDIVWEIDEYIDFE KIRKALPNSEDLVKLAPDFDKIVESLSLL KDDFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQLQEELLHTQLKYQRILERLE
5933	13984	A	6717	38	359	
5934	13985	A	6718	122	282	
5935	13986	A	6719	2	1010	
5936	13987	C	672	336	728	MGLPKTGHQQHFPQELESSRIPHAGLS QVQVHFRLGQRCPLRSSQVLLWHLPRK VSTFLPCALTLGVAHWQRQRTGCQSC QRTSGSMGRQPGAFPGFLLQHLSTFTLP HRLCDSSLVLLCEMTHGRLD*
5937	13988	A	6720	326	513	
5938	13989	A	6721	1	1076	
5939	13990	C	6722	11	79	MLPILRHTFLRVTLRGKKACLL*
5940	13991	A	6723	3	198	
5941	13992	A	6724	1	432	
5942	13993	A	6725	123	336	
5943	13994	A	6726	1	227	
5944	13995	A	6727	1	131	MPVLLTSDEMHKSSVKAGFAKVDQQQA PKSVQLLTVKTRDSTSNRGN SGPRSQAT DRICRTPYHFEDC*SGSTASPVSSASDS EDKRLNK
5945	13996	A	6728	3	364	
5946	13997	A	6729	2	197	
5947	13998	A	673	1	1254	
5948	13999	A	6730	2	421	
5949	14000	A	6731	33	294	



5950	14001	A	6732	2	670	
5951	14002	A	6733	1	171	
5952	14003	A	6734	1	789	
5953	14004	A	6735	3	363	
5954	14005	A	6736	2	379	
5955	14006	A	6737	116	373	
5956	14007	A	6738	1	164	
5957	14008	A	6739	3	122	
5958	14009	A	674	1	921	
5959	14010	A	6740	83	2455	
5960	14011	A	6741	83	2450	IRIAALDDFRTSLTMSSTRSQNPGLKQI GLDQIWDDL RAGIQQVYTRQSMASRY MELYTHVYNYCTSVHQFVGLLEYKRLK EFLKNYLTNLLKDGEDLMDESVLKFYTQ QWEDYRFSSKVLNGICAYLNRHWVRRE CDEGRKGIYEIYSLALVTWRDCLFRPLN KQVTNAVLKLIKERNGETINTRLISGVV QSYVELGLNEDDAFAKGPTLTVYKESFE SQFLADTERFYTRETEFLQONPVTEYM KKAEARLLEEQRVQVYLHESTQDELA RKCEQVLEIKHLEIFHTEFQNLDDADKNE DLGRMYNLVSRIQDGLGELKKLETHIH NQGLAAIEKCGEALNDPKMYVQTVLD VHKYNALVMSAFNNDAGFVAALDKA CGRFINNNAVTKMAQSSSKSPELLARYC DSLLKKSSKNPEEALEDTLNQVMVVK YIEDKDVQKQFYAKMLAKRLVHQNSAS DDAEASMISKLKQACGFYTSKLQRMF QDIGVSKDLNEQFKKHLTNSEPLDLDFSI QVLSSGSWPFQSQCTFALPSELSYQRF TAFYASRHSGRKL TWLYQLSKGELVTN CFKNRYTLQASTFQMAILQYNTEDAYT VQQLTDSTQIKMDILAQVLQILLKSKLLV LEDENANVDEVELKPDTLIKLYLGYKNK KLRVNINVPMKTEQKQEQTTHKNIEED RKLLIQAAIVRIMKMRKVLKHQQLLGEV LTQLASSRFKPRVPVIKKCIDILIEKEYLAE RVVDGEKDTYSYLALTLSGKGLDLCDPQ QIVHVGKE
5961	14012	A	6742	3	318	
5962	14013	A	6743	17	174	
5963	14014	A	6744	3	711	LSSCLCGSGKAFGMPTMRLLSFVVLALF AVTQAEEGARLLVSKSLNRYAVEGRD LTQYNIYVNGSSAALDVELSDDSFPPED FGIVSGMLNVKWDRIAPASNVSHTVVLR PLKAGYFNFTSATITYLAQEDGPVVIGS TSAPQGGMVLVQREFDRRFSPHFLDW AAFGGHDPFPPSGIPLLLWYSSKRKYDT PKTKKNLIWGFHKPSSPKSKAPLPKKP QVLSQTPKGY
5964	14015	A	6745	74	471	
5965	14016	A	6746	1	1371	MAENDVDNELLDYEDDEVETAAGGDG AEAPAKKDVKGSYVSIHSSGFRDFLKLP ELLRAIVDCGFHPSEVQHECIPQAILGM DVLCAKSGMGKTAFFVLATLQQLPEV TGQVSVLVMCHTRELAFQISKEYERFSK YMPNVKVAFFGGLSIKKDEEVLLKNC PHIVVGTPGRILALARNKSLNLKHIKHFIL DECCKMLEQLDMRRDVQEIFRMTPEHK QVMMFSATLSKEIRPVCRKFMQDPMEIF VDDETKLT LHGLQQYYVKLDNEKNRK LFDLLDVLEFNQVVFVKSQVQRCIALAQL LVEQNFAIAIHRGMPQEERLSRYQQFK DFQRRILVATNLFGRGMDIERVNI AFNY DMPEDSDTYLHRVARAGRFGTKGLAI TFVSDENDAKILNDVQDRFEVNISELPD EIGHLLPTLEQD TVEDSPILGMLTVCSFQ

						GGGTPGW
5966	14017	A	6747	2	139	AGSELGEGEEVGLSYL/DERTNSEEGGL RGEKRKRDAENDGEEDE
5967	14018	A	6748	3	270	
5968	14019	A	6749	21	301	
5969	14020	A	675	659	1601	SRASSSVVPLALPSLQVTFHPLNEGTLAV ASSMLSSFQPEIGTNATVLGL*PIFLM*VL TSLTISSYLFWL/RGWLSGTTLLEALDCIL PPTRPDKPLGLPLQDVYKIGGIGTVPVG RVETGVLKPGMVVTFGPVNVTEVKSV EMHHEALGEALPGDNVGFNVKNVSVKD VRRGNVAGDSKNDPPMEAAGFPAQVHIL NHPGQISAGYAPVLDCHTAHIACKFAEL KEKIDRRSGKKLEDGPKFLKSGDAAIVD MVPGKPMCYESFSDYPPLGCFAYRDMR QTVAVGVKAVDKKAAGAGKVTKSAQ KAQKAK
5970	14021	A	6750	4	366	RHRVSLYPSE/WSAVAQTHSSL*P*APWE LK*SF*LSPSS*K*RSIQLCPG*LRNFFFF/ CGRDGVLMLSMVFNSTQVMLLPQPP QVLGLRVELDDTFLKVSSLVLFCLKQGY KKRIWNP
5971	14022	A	6751	3	263	
5972	14023	C	6752	54	161	MLPSIQITVEKRMNVFQYSQDAGFSPVNI VFTIGR*
5973	14024	A	6753	161	1122	
5974	14025	A	6754	1	891	
5975	14026	A	6755	2	104	
5976	14027	A	6756	957	1285	HGTRRRRDVIMREFRSRVKVRVLITDDL LGSRGMLMCNNVSLVIN/YMDLPTNREN YIHRIGRGGSNLGGKGVAINFCYLKTR GFLRDIETFLPILQWRRMPMKCGLTLF
5977	14028	A	6757	1	716	
5978	14029	A	6758	2	835	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFIILVLSAQESWAIKEEHVIIQAEF YLNPDQSGEFMFDFDGEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPITNVPEVTVLTNSP VELREPNVLICFIDKFTPPVNVNVTWLRNG KPVTTGVSETVFLPRENTLFR/KFHYFP FLPPTEDVYDFRVEHWGLDEPLLKHWE FDAPSPLPKITTENVVACALGLTVGLVGIII GTIFIHKGIRKSNAEAERRGPL
5979	14030	A	6759	759	1022	PTQGQRKGTSHLGGGADAGCTAAEPEG GTAAASGAGAGRAGD*HPGTGAQHHP PAVPGEAPGEETQGQVQEEPAEAQGWWQ PHOPPF
5980	14031	A	676	1	1335	
5981	14032	A	6760	2	689	
5982	14033	A	6761	2	1011	
5983	14034	A	6762	2	151	

5984	14035	A	6763	3	740	RPIGEFRSNADYQYQLLRNVDLLKIIQL GLTFMNEQGEYPPGTSTWQFNFKFNLTE DMYAQDSIELTTSGIQFKHEEEGIETQ YFAELLMTSGVVLCEGVKWLFSHSGYD FGYLKILTNSNLPEEELDFEILRLFFPVI YDVKYLKISCKNLKGGLOQEVAEQLAE LERIGPQHQAGSDSLALTGMAFFKMREM FFEDHIDDAKYCGWLYGLGSGSSYVQN GHRGMHMEEGSQQGSPTWK
5985	14036	A	6764	296	522	IWVFHNLKGLFEIFCCILKYFLEELLILF* KTKL*KHASFLKNNPSIQDMESSTTVHRS GLGGSCLCADVLSLQWL
5986	14037	A	6765	3	333	
5987	14038	A	6766	1326	1980	TSEASRQSERVDSAALSALLSRSSKCR PWGTARVARAGGCLTPLLRRFLETRPF TGPWDPGLGVTWCWCCPPKRRLKSTPRPK FSVCVLGDQHCDEAKAVDATFEVCLG DQVLSNANGFLSLSAKKYDAFLASESLI KQIPRILGPGLNKAGKFPSSLREEGQAIC YSSTNLT*SSLPSQVLC LAVAVGHVKM TDEL VYNHLAVNFLVSLK
5988	14039	A	6767	11	713	EAMSSKVSRTLYEAVREVLHGTQRKR RKFLAETVELQISLKNYDPQDKRFSGT VRLKSHSPALSFSVCVLGDRQHCDIEA KA\VDIP\HMDNEALEKTSTKNKLVKK AGQRKYDAVFGPQSLLIKQIPRIPRAGL NKAGKFPASLLTHNENMVAKVDEVKIS PIKFQMKKVLCLAVAVGHVKMTDEL VFNIHLAVNFLVSLK\KNWQKCSGAL YYQEAPMGQSPKRLY
5989	14040	A	6768	2	277	
5990	14041	A	6769	1	336	
5991	14042	A	677	1	811	
5992	14043	A	6770	132	347	
5993	14044	A	6771	3	109	
5994	14045	C	6772	5	160	MGFEGGPKILNWKFKKVXQSXSCLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5995	14046	A	6773	52	310	YIIRTQTQISHPLHYILGSAKKKLCFGKS YFIRGSSFRKGQGHEERGLKYKKKTGEG V**KRTKKQTKTKTKIKYLSRCCGNV
5996	14047	A	6774	149	333	
5997	14048	A	6775	1	1616	LFFFFFFLESTRFY*FFFFFFFTIQTFGG PLSPFFLLFFIKPLQFFFFIL
5998	14049	A	6776	2	138	ASGHREVQDSYEAYGQDDWNGTITSLK/ APPARPVKGAYREHPYGRY
5999	14050	A	6777	1	1212	
6000	14051	A	6778	3	150	
6001	14052	A	6779	2	1622	ASVATAPALPPPPTAARASVAAASLSRSL DRTSSQMQRDDPAARMSRSGRSGSM DPSGAHPSVRQTPSRQPLPHSRGGGG GSRGGARASPATQPPPLPPSATGPDATV GGPAPTLLPPSATASVKMEPENKYLPEL MAEKDSDPSFTHAMQLLTAEIEKIQKG DSKKDDEENYLDLFSHKNMKLKERVLP VKQYPKFNFGKILGPQGNITIKRQEET GAKISVLGKSMRDKAKEEELRKGGDP KYAHLNMDLHVFIIEVFGPPCEAYALMA HAMEEVKKFLVPDMMDDICQEQLS YLNQVPEPSRGRGVPRGRGAAPPPPV PTGRGVGPPRGALVRGTPVRGAIIRGAT VTRGVPPPTVRGAFC* RARTAGIQRIP LPPPPAPETEEYGYEDTYAEQSYEGYE GYYSQSQGDSEYYDYGHGEVQ\DSYEA LWPRTNWNTRPSLKA PLARPVKGAY REPPYGRLLKTKHEGENISYEQSLLLDFL YLPGIPVALPTTDQGNWSKCFRRGSPSF SPTLIPFL

6002	14053	A	678	269	561	LSFVGSLSRLTAGFAECPRFRFPAPNP RTPSTRNSAPDSQKGATWATAVQAAPR WT*ETGSNPWPTLAAPCSRSRGPASFS GGPSASCKLCLK
6003	14054	A	6780	1	76	
6004	14055	A	6781	1	287	CFL*DRVLLCHPGWSAVAHNHSSLP*T PGIKQFSLRL/SSS*DYRCTSPYLAIFFF *VFCRKQSLATVPTISNSWPQAILLSWS KHVEITGF
6005	14056	A	6782	3	64	
6006	14057	A	6783	2	69	
6007	14058	A	6784	1576	3458	
6008	14059	A	6786	1	960	
6009	14060	A	6787	507	755	NKRGYKQMEEHSMMLGRKNQYRKNGH TAQGNL*IQCHPHQATNDFLHRIGKNDF QVHMEPKKSPHRQVNPKEQSWRHHA T
6010	14061	A	6788	274	882	PDQVDRGGAHWQTDADDPWLADHLQH CQRCGEILRHYSGGIRGNVSAVKCAEHH VPAFARLRNPQCGDFQRLDYRLFDSPGV KRREL*TAYRFCHVAP*LMDLRSGWAA GAVYRYQSH*FTADRLRSVDMDEAGN HHSQQT/SQDQKIKQRTFSLISGS*TRTH GHREGNITHRGLSRPNTARILCASKAHL GLPLRSSLP
6011	14062	A	6789	114	329	
6012	14063	A	679	415	1094	SKSRMSAEVIHQVEEALDTEKEMLLFL CRDVAVDVPPNVRDILLITERGKLSV GDLAELLYRVRFDLLKRLKMDRKAVE THLLRNPHLVSDYRVLMAEIGEDLDKSD VSSLIFLMKDYMGKGKISKEKSFLDLVV ELEKLNLVAPDQLDLEKCLKNIHRIDLK TKIQKYKQSVQGAGTSYRNVLQAAIQKS LKDPSSNNFRMITPYAHCPLKILGNCSM
6013	14064	C	6790	1	1983	MGDGTSDFDPIGDIGIRQSNYSCGGCPRI PYVWRVTGRAHGTQTIIVFMAKVYYG NVMRREKDSGGAWGNPWAGILLPPPST RNCTVHSSFSNENIFPQHTSSCVV VHNQ YIGADFPWSNFSFVVEYNYVEDSCWTK HCKELNIPYMAFKVILPDTVLERSTLLDR FGGFLEIQIPYVFFASEGLLNTPDILQLL ESKDMDEAGNHSEQTVTRTENQTLHV LTHRWELNNENTWTQDGEHHTPGPVVG WRELIIAPGVEATALIIRQIADHSLMTSKR DPHEWLDKSWLVSPSEENRNQISTLSS QSSASDLDSVIEHNEYQYLGLGETVQ EDKTTILNDNSSIMELKEISSFLPPVTSYN QTSYWKDSSCKSNIGQNTFPLINIESRRP AYNSFLNHSDSESDVFSGLTQMNCETI KSPTDTQKRVSVPFINSQKRRTHEAK GFINKDVSDPIFSLEGTQSPLHWNFKKNI WEQENHPFNLOYGAQQTACNKLYSQKG NLFTDQKCLSDSEGLTCESSKDETFW RELPSVPSLDLFRASDSNANQKEFNSLYF YQRAGKSLGQKRHHESFNSGDKESLTE EKTEAQEKMTTEDRGRGWGYATTNRR MPRIAGNHQEPGERRGTPPPSEAPEGSNP ANTLILDFPPPEL*
6014	14065	A	6791	190	486	FLLHFFLHD*YSSNKLQKVNKSIPPTGPS LCPCVLIVQLPLMSENMRCLVFCSCVSL LRMMVSSFIHVPLNFFNAFLLLNFFRFCP LLSCHMIKKSSS
6015	14066	A	6792	1	597	

6016	14067	A	6793	1	721	MTSYNEQNKKPVTDPNEMAIHEDSNQE FKIAVVNETQSRSPSSPTEHLMTPPPLPT REQQPPLTVIFHYLPKSYKTAPPLSPFPDS LFGLSQPAPRDMDEAGNHHSQQTKQEQ KTKHCMFSLTSGS*TMRTHGHREGTVIH RGLLGQFSQQLINKSEFSNTVCREKSGR VLQVNME SPL*MIQDALQDQTPKGPIT VFL*LFYLDHLLRSSHKVASYLSTESRSR GSITVLFIRCSEP
6017	14068	A	6794	417	696	DRNRKANTACFQHSQVGVEQ*EHMDTG KV*SI*YGNYEHTSTCERMEIQKATTEHL NL*S*SGSFLRFTWKMLQFSKISRSFYQV LKHQQKIM
6018	14069	A	6795	325	1489	RSPTLLMHVHYIKVISWRELLIWLRAA NASINPGVEQSPSGDPKTVTGFPFLRLEA ADWVEEASVPKGVHIALSSQEQRAGDP RDLEAPSNLVISERTHRFRVSWTPPSDS VDRYKVEYYPVSGGKRQEVVTRTPGVPD LRLPAIPQAAWLLAHLPAAPSAPTELPT KHTEAQSORCWSLLCSVTEVAAPSQV VKEAPPSFHTGTENG YQGEESLFNKAYY GGGTNFFRKESQKLQSSAKKRDAELAN GALGIELNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLFDSRGSKMTI DENKIPRNPTYKGREGPLQGELOTTAAG NKRQYKQMEEHSMLMDRKNQYRENG TAQA/QPPPSGI*GYTAPCFPWENLI
6019	14070	A	6796	274	716	QACYIYTTEYYAAIKNDEF/TVLCRDM EAGNHHSQQTVTRTKNQTPHVLTHRWE LNNENTWTQEGEHHTPGPVMLDSAPPTL GHQTPGSSAFGLWDLHQRLRLRPQTKG STVGFPGEAFKLGLGHYWLSFFPSLQT AYRGTLPFNH
6020	14071	A	6797	1	870	
6021	14072	B	6798	328	2283	MKLEAILSKLTQEQKNQTLHVLTHRWE LNNENTWTQGGEYHTLGPVDGFQKKEE AAGAILQPLLVIQTVLGVLDLQQTADLQ QRGLLEEKLTNRKKIAHTVRDHIQREHN SSPAREQNWMENFTDELTVGFRRWVI NSSELKEHDLTQCKKG TWMMLETIIFSK LTQEQKNQTLHVLTHKWELNNENTWTQ GGEHHTLGPVWRMFQIYVVAERMLDKI PSLAFGLDLRQWFARGCWSFGHRLKA ARITAPRLAREQNWMENEFDKLTEVVFR RWVITKSKLKEHALTQCKEDKNLEKKEL ATQQKMSSRTASEASSVFTATPHCYHYY LSSASYHISGSIRFPVLEKIRLHMGLNENK CKVLLSGGSSSQMYGDLEGGWNGKV VFPWSWAVQEPASPPTTLGQISLTVCCST VNGLPASVDVFFCREALPRNLQKFPKAD LGCILLQYIDNLLGYSTAVGCARRMDA LLRHLEDCGYKVSKKKAQICRQQTEGEQ TIRERWIKLSDGRIAPQLGAADVVLAV HKTIHLGQESLEKLLGQYFYISHLPALAK TVAQQCVTCQQRHAKQGSPVPPGIQAY RVASFENLQVDFTEMPKCGDQGLERGST VALVEGTPDHYPDHSHSYKGRNPKLD SHSCVKPATAKT*
6022	14073	A	6799	2	472	
6023	14074	A	68	241	492	GGQIMRSGY*DHPG*/HGETRSLKIQKL AGHGGRHL*SQLLRRPRLENRLNLGGRG CSEPSSRHCTAAWATE*DSVSKKKKSRR

6024	14075	A	680	551	1706	SKSRMSAEVHQVEEALDTDEKEMLLFL CRDVAIDVVPNVRDLLDIFT/RERGVLS VGDLAELLYRVRFDLLKRLKMDRKA VETHLLRNPHLVSDYRVLMAEIGEDLDK SDVSSLIFLMKDYMGGRGKISKEKSFLDL VVELEKLNLVAPDQDLLEKCLKNIHRI DLKTKIQKYKQSVQGAGTSYRNVLQAAI QKSLKDPSNNFRLHNGRSKEQRLKEQLG AQQEPVKKSIQSEAFLPQSPIEERYKMK SKPLGICLIIDCIGNETELLRDFTSLGYE VQKFLHLSMHGISQILGQFACMPHEHRDY DSFVCVLVSRGGSQSVYGVDTQTHSGLPL HHIRRMFMGDSCPYLAGKPKMFFIQNY VVSEGPAGEQQPLGGWWMQOR
6025	14076	A	6800	1	239	QCCSGGTHGNPAIGDRMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
6026	14077	A	6801	2	440	TGIVMDSSDGITHTMPYEGYTLPHAILP LDLAGQDLTDYFMKILKEGGYSFTTTAE REIMLDIKEKLCYITLDFEQEMATAASSS SLEKS*ELLNGQVITISNQWFHCP/EYLFQ PSFFTSIMKCDVDICKDLYANTVLSGGT TMY
6027	14078	A	6802	2	212	
6028	14079	A	6803	3	443	
6029	14080	A	6804	1	1470	MSTRPRRPPQLGRSTGRARLASRVAAAA GPPGARAPLAGDRAPAAGAPRRAGAGP CRPDPFPPAAGPTRGSPREGGKTGNRGK EREKGRRASQLAFADPPPVATRRQLTMD DDIAALVVDNGSGMCKAGFAGDDAPRA VFPSIVGRPRHQGMVMGMGQKDSYVGD EAQSKRGILTLKYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFNTPAMYVAIQAML SLYASGRTTGIVMDSGDGVTHTVPIYEG YALPHAILRLDLAGRDLTDYLMKILTER GYSFTTTAEREIVRDIKEKLCYVALDFEQ EMATAASSSSLEKSYELPDGQVITIGNE RFRCPALFQPSFLGMESCGIHETTFNSI MKCDVDIRKDLANTVLSGAVTMYPG IADRMQKEITALAPSTMKUKIAPS*RK YSVWIGGSILGLLSTFQQMWISKQEYD ESGPSIVHRKCF
6030	14081	A	6805	171	393	GKPKPKPKPLPKPSREISHIP*GL*KAGP FRAPGRPGCKPCWLGPSGPGGR*GCP*K ASPEKVLGENLTLKNP
6031	14082	A	6806	3	264	SRRGSSPAQGSGLRPLLSAQYKWVG GGDRVSL*TMDSLAPKTNQRASQSKLD LQPA*APWP/PQLCGHPVPSPASCPKSPTF KPT
6032	14083	A	6807	1	632	
6033	14084	A	6808	1	591	
6034	14085	A	6809	783	1516	
6035	14086	A	681	76	158	
6036	14087	A	6810	1	951	
6037	14088	A	6811	122	271	
6038	14089	A	6812	3	132	
6039	14090	A	6813	3	302	
6040	14091	A	6814	2	2158	
6041	14092	A	6815	2	186	

6042	14093	A	6816	1	866	MMEAIIKKKMQMLKLDKENALDRAEQA EAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLAEKKAA DAEAEVASLNRRIQLVEEELDRAQERLA TALQKLEEAEKAADESERGMKVIENRAL KDEEKMEQLQELKEAKHIAEEADRKYE EVARKLVIEGDLERTEERAELAESKCSE LEELAKNVTNNLKSLEAQAEKYSQKED KYEEEIKILTDKLKEAETRAIEFAERSVA KLEKTDDLEDELFAQKLKYKALSEEL DHALNDMTSI
6043	14094	A	6817	1	639	
6044	14095	A	6818	1	1710	
6045	14096	A	6819	764	1203	FWLVVSFWVPCNTHHTTSKSTSFSSPSTQ ATRFQVL/WFVIKASIIQGYCIARERKEFT HPVGRLSCLRQKLYNGTTETVTWSSNH TERNPFSKFPKLRTVWTHPESHDRDWTAP TGLYWICGHRFAKL PDESAGIGGPKQG AIGIKE
6046	14097	A	682	1	2313	
6047	14098	A	6820	24	225	ARQAQAWFWAWRWAACLWFFLVVFS *NRY*VSNMKNIRSLSSLNSSCKF/WS TRQK*IPKMLS
6048	14099	A	6821	1	1752	
6049	14100	A	6822	110	203	
6050	14101	A	6823	76	353	
6051	14102	B	6824	64	930	MLRSVWNFLKRHKKKCIFLGTVLGGVYI LGKYGQKKIREIQEREAAEYIAQARRQY HFESNORTCNMTVLSMLPTLREALMQQ LNSESLTALLKNRPSNKLIEWDLKISFT RSTVAVYSTCMLVLLRVQLNIGGYTYL DNAAVGKNGTTILAPDVQQYLSSIQH LLGDGLTELITVIKQAVQKVLGVSLSKHS LSLLDLEQKLKEIRNLVEQHKSSSWINKD GSKPLLCHYMMMPDEETPLAVQACGLSPR DITIKLFHKTEDMLGSPDFRQLNTCFK PRF*
6052	14103	A	6825	385	666	
6053	14104	A	6826	701	930	VAERQTGTGQGTVDITDRATSM*MRQ RRGCCFATCC/FRHEGVVPVWQGRYHD HEGGFPRARLIHCTPDVLTYPYHV
6054	14105	A	6827	248	719	TDEPSLLSHTFCPKGALLSACSGACPLSS GTQAGMPPSTEALQPCRGLTVPHQQDK GHRACC/VWKALAADWSVEWQKGRRG LGKALSVTSR/IRATSM*MRQRRGCCFAT CC/FRHEGVVPVWERGYHDHEGGFPRAR LIHCTPDVLT PAISPNVGNSTA
6055	14106	A	6828	1	2489	
6056	14107	A	6829	227	547	FHNKCPRRLES LRQQISIFGMPENHLLKM QILRSAPDSLDFPCAGPLHLGEELLHRV EQVGAEVARVQQDFVL*GDMVEHLPRP GRQAESTPPTVPGNPPETLRRR
6057	14108	A	683	788	926	PSPELPEGDFEGFFPQKLQ*SCLPTLQKK KNNNNNNNNNNNNNNNEK
6058	14109	A	6830	3	433	
6059	14110	A	6831	37	360	
6060	14111	A	6832	280	1816	
6061	14112	A	6833	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6062	14113	A	6834	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6063	14114	A	6835	2	340	
6064	14115	A	6836	220	412	

6065	14116	A	6837	425	619	
6066	14117	A	6838	1	684	MESQEPTESSQNGKQYIISEELISEGKWV KLEKTTYMDPTGKARTWESVKRTTRKE QTRDGVAVIPVLQRTLHYECIVLVKQFR PPMGGYCIESPAIGLIDDGETPRKQLLSR ELEEEETGLQRGPLPEC/SLPAVCMGPQAC PNCTIHIVTV/TPINGDDAENARPKP/KSP GDGEFVEVISLPKNDLLQRLDALVAEE HPHSGTPRVYSIYALAL\KHANAKPFEV PFLKF
6067	14118	A	6839	3	194	
6068	14119	A	684	242	437	KSCFFCLIRCYDSLPLPLLNNFFFLGTES CSVAQAGVRWLNLSSTSGPLPGSINSP ASAS*AA
6069	14120	A	6840	1	168	
6070	14121	A	6841	3	191	
6071	14122	B	6842	15	377	MAALCRTRAVAAESHFLRVFLFRPFRG VGTESGSESGSSNAKEPKTRAGGFASAY GAARRSFYRRWSPYRKVEPGRGSPKKC GILCIYAETILPLTTDGTTLQTTKLHVHTG SFIFVENDL*
6072	14123	A	6843	2	205	
6073	14124	A	6844	1260	1628	SFLCLVSCFSNFS*NCSRPFVSLSLKFDV FVLFCDGVLLCHPGWIAVAQSRLLTAST SRIKRFSCLTIRSSWDYRRPPPCPADFCIF SR/DRGFTMLARLVWNS*PQVICPPPPK VLGLQA
6074	14125	A	6845	3	629	
6075	14126	A	6846	15	241	
6076	14127	A	6847	93	172	
6077	14128	A	6848	3	82	
6078	14129	A	6849	2	237	
6079	14130	A	685	1	1254	
6080	14131	A	6850	407	529	
6081	14132	A	6851	2	383	
6082	14133	A	6852	1	444	
6083	14134	A	6853	1	279	
6084	14135	A	6854	3	989	
6085	14136	A	6855	1	318	
6086	14137	A	6856	1	397	
6087	14138	A	6857	15	95	
6088	14139	A	6858	3	350	
6089	14140	A	6859	118	325	
6090	14141	A	686	73	1553	PLKAKMGKEKTH\NIVVIGHVDSGKST TTGHLIYKC\GGNDKRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERGITIDISL WKFET\SKYYVTYPFADAPGH\RDFYPKT WITGDIFRLDWFGPPFWGGSPLIVAAG\ VGEFEAGYLPRNGADPERHALLAYTLG CETTKLSGVNKNIGIPLEPTPTAQKKILKEI VKGKSALTLRKIGYNPDTSSILCPISGWN GDNMLEPSANMPWFQGDGKVTRKDG NASGTTLEALDCILPPTRPTDKPLGLPL QDVYKIGGIGTVPGRVETGVLKPGMV VTFGPVNVTEVKS\VEMHHEALGEALP GDNVGFNVKNVSVKDVRRGNVAGDSK NDPPMEAAGFPAQVIILNHPGQISAGYAP VLDCHTAHIACKFAELKEKIDRRSGKKL EDGPKFLKSGDAAIVDMVPGKPMCVESF SDYPPLGCFVRDMRQTVAVGVKAVD KKAAGAGKVTKSAQKAQKAK
6091	14142	A	6860	1	135	
6092	14143	A	6861	1009	1140	
6093	14144	A	6862	3	416	
6094	14145	A	6863	4	252	



6095	14146	A	6864	3	130	
6096	14147	A	6865	1	1590	
6097	14148	A	6866	1	595	GTRRLAPTAQRKRDENQSVKPEPGRGAS VRGGNLQTLPAAGDFTLCPASDFRRVP AGQTQVPAAETA VEPVPAVVAGARGGR VMSEPPQPRGAERDLYRDTWVRYLGYAN EVGEAFRSLV PARVVWLSYGVASSYVL ADAIDKGKE/ELERCPALEASRSARVTVA VVDTFVWQALASVAIPGFTINRVCAASL YVLGT
6098	14149	A	6867	2	453	
6099	14150	A	6868	1	265	
6100	14151	A	6869	46	194	
6101	14152	A	687	67	408	KAAGKRGDFKTEGAYQRQRTIFKNKKR ARREKTGRENLRGN YKNMGRGLKT PRG ALGGPYLDKKGPLRGKGPFGGTLSSS PKIKIQGT*IRRNYPYIRRYNRFKKRQ KNM
6102	14153	A	6870	4	228	
6103	14154	A	6871	1	288	
6104	14155	A	6872	1	885	
6105	14156	A	6873	532	687	
6106	14157	B	6874	158	3331	PRPPAAGEAQAADNMHQQQQQQQKA GEQQLSEPEDMEMEAGD TDDPPRITQNP VINGNVALSDGHNTAEEDMEDDTSWRS EATFQFTVERFSRLSESVLSPPCFVRNLP WKIMVMPRFYPDRPHQKSVGFFLQCN ESDSTSWSCHAQAVLKIINYRDEKSF SR RISHLFFHKENDWGFSNFAWSEVTDPE KGFIDDDKVTFEV FVQADAPHGVAWDS KKHTGYVGLKNQGATCYMNSLLQTLFF TNQLRKA
6107	14158	A	6875	589	732	
6108	14159	A	6876	1	799	
6109	14160	A	6877	2	470	
6110	14161	A	6878	3	204	
6111	14162	A	6879	367	551	EHSTLKLPHYHTQEAGAAPGPTGTD SHEV DHLEGGAGKEAGPCA*SLGTMVAPVRS NSGSPE
6112	14163	A	688	10	386	AGAAAIGEPMA*RGEHPPWSVDERAD STNVNNWHWTERDASHWSTD KLKTLFL AMHVQNEERNGEATEVSKLDGEASINN RIGKLMFFYEWGVTL DWTGAS*SGVPY KGHVEIPYLADENCVDE
6113	14164	A	6880	24	547	
6114	14165	A	6881	1	828	
6115	14166	A	6882	2	270	
6116	14167	A	6883	2	114	
6117	14168	B	6884	75	293	MPSIKLQSSDGEIFEVDVEIAKQSVTIKT MLEDLGMDDEGDDDPVPLPNVNAAILK KVIQWCTHHKDDPPSS*
6118	14169	A	6885	446	639	

6119	14170	A	6886	3	1503	ARQRRSRAPYHHTHRALVRLFSGSQSAP PPPPRSPPSAAMSTRSVSSSSYRRMFGG PGTASRPSSRSYVTSTRYSLGSALRP STSRSLYASSPGGVYATRSSAVRLRSSVP GVRLLQDSVDFSLADAINTEFNTRTNE KVELQELNDRFANYIDKVRFLQEQNKIL LAELEQLKGQKSRLGDLYEEMRELRR QVDQLTNDKARVEVERDNLAEDIMRLR EKLQEEMLQREEAENTLQSFQDQVDNAS LARLDLERKVESLQEEIAFLKKLHEEEIQ ELQAQIQEQHVQIDVDVSKPDLTASLRD VRQQYESVAAKNLQEAEEWYKCQVC* PLLASNRNNNEPLRQAKQESITELPENR VQSLTCVEVDAL*RKPMSSLERQLREME ENFC/AVKAANYPRLLARLQDEIQNY* RREMASLTFVEYQ*PALNVKMAP*HLRF ATLQE/MLLGRRGERGFPLASFPNFSLP* TLRGNLIWDSLPSGLIPHSKRDT
6120	14171	A	6887	3	232	
6121	14172	A	6888	252	384	
6122	14173	A	6889	3	196	
6123	14174	A	689	2	323	REMDLQVHNAMDQLEQRVSEFFMNAK KNIPEWREEQMASIKDYKALEDADE KVQLADQIYDL/RSLELDTPSQPVNNHH AHSHTPAEKRYNPTSHHTTTDHIPEK
6124	14175	A	6890	1	2994	
6125	14176	A	6891	75	350	TGIPVNSYRVKINWYTLQFVSLFRPFGP VINNLADQSESEGPVQIESAEPQLAEP ATEEIKETDGSSQIKQEPDPTWETSFLG EISF
6126	14177	A	6892	1	2935	
6127	14178	A	6893	214	301	
6128	14179	A	6894	1	2879	MAQVAMSTLPVEDEESSESRMVVTFM SALESMCKELAKSKAEVACIAVYETDVF VVGTERGRAFVNTRKDFQKDFVKYCV EEEKAAEMHKMKSTTQANRMSVDAVEI ETLRKTVEDYFCFCYKALGKSTVVPVP YEKMLRDQSAVVVQGLPEGVAFKH YDLATLKWIGENKGGISFIKRPFLPKK HVGGRVMVTDADRILSPGGSCGPIKVK TEPTEDSGISLEMAAVTVKEESEDPDY QYNIQ
6129	14180	A	6895	1	334	
6130	14181	A	6896	3	444	
6131	14182	A	6897	117	1009	
6132	14183	A	6898	5	808	LPLPGRAVWCTHCCAPTSPGPVLP MSFLKSFPFPPGPAEGLLRQPDTEAVLN GKGLGTGTLVIAESRLSWLDGSGLGSL EYPTISLHALSRDRSDCLGEHLYVMVNA KFEEESKEPVADEEEEDSDDDVEPITEFR FVPSDKSALEAMFTAMCECQALHPDPED EDSDDYDGEEDVEAHEQGGDIPFTFY YEEGLSHLTAEGQATLERLEGMLSQSVS SQYNMAGVRTVEDSIRDYEDGDGRD TPTVCLGQFEDADV
6133	14184	B	6899	233	411	XALNGLSAQDNWAKLQRDYDPALITNY YLWPAVQLANFYLVPLHYREDPASTTLV SDPT*
6134	14185	A	69	709	941	SQHFERSGDQHHPGQHGETLSLLKMQK LAGCGGMRL*SQLGRLRQENLLNPGG RGCSKPRSHCTPAWVTQQDSIS
6135	14186	A	690	2	495	AKKNKPEWREEQMASIKDYKALEDA DEKVLSSNQIYDLVDRGGRKLDQELAK FKMELEADNAGITEILERRSLELDTPSQ VNNHHAHSHTPVEKRYNPTSHHTTTD HIPEKKFKSEALLSTLTVRCLLRENTLGC RVNNNSTASSNAYNVNSSQPLGSYN

6136	14187	A	6900	109	435	
6137	14188	A	6901	34	408	RQWLQEEAYITKEQKYSFLHDSQTSFCF SDSIPTSSNMEETQQ/KSNLELLHISLLLN QSRLEPVRFLRSTFTNNLVYDNSDSDDY QLLKDLEGGIQMLMGRLEAATN*LGGP QANYNKFDKTRTT
6138	14189	B	6902	80	495	XPGSRTSLLAFALLCLPWLQEAGAVQT VPLSRLFDHAMLQAHRAHQLAIDTYQEF EETYIPKDQKYSFLHDSQTSFCFSDSIPT SNMEETQQKSNLELLRISLLIESWLEPV RFLRSMFATTWCMTPTAMTITS*
6139	14190	A	6903	1	597	
6140	14191	A	6904	3	552	
6141	14192	A	6905	3	716	
6142	14193	A	6906	359	648	WIPRPNSPNHSGSCGQAHLVAMAPGSRT ISLLAFALLCLPWASRRLGAVPKPFRIS RLFADHAMLQAHRAHQLAIDTYQEFEE TYIPKDQKYSFLA*PQTSFCFSDSIPTPS NRRITQQKSNLELLRISLLIESWLEPV RFPQEYCSANNLGVLTPTAIDYHLLKD LEGGHPTV*WNICREVCFSACFSRGIRDD IEEEDDQEAYFRYMAENPTAGVVQEEEE DNLEYDSGDGNPIAPTCKIIDPLPIDHSEV DQHGLRPEGTHLTLKERTSWVESVADTL CTILTTLVMDPKAQLPEPLRVLWTGSPS GNGSRLPDVPCSWLLPCSACPLQGGW VPCQNRSVYPGFFDHAIAPSPSRAPAGH CTPTRSLKKPHIPKDQKYSFLA
6143	14194	A	6907	113	411	
6144	14195	A	6908	3	1162	
6145	14196	A	6909	2	265	
6146	14197	A	691	50	391	GSQKIAPVFWSGFECDSERLTDLESWLY ILPATQPWSLTYFYFQFSFILTFLRYDKLF FFFTLYLYLNLYFFLYVFLFIV*ICIFCYTY LVFIFKCVV*FFIFFVCFMLFFL
6147	14198	A	6910	3	151	
6148	14199	B	6911	58	359	SLAALQAYSHWLAQYCSEVHRQNTQQF VTLISTTMDAITPLISTKVQDKLLLSACH LLVSLATTVRPVFLISIPAVQKVFNRTDA SALRLVDKRMSSSGP*
6149	14200	A	6912	4	329	
6150	14201	A	6913	2	256	
6151	14202	A	6914	1	350	

6152	14203	A	6915	257	2659	VDCRMS/FKFTDFLRLFVSVHLRRIE SYSQFPVVEFLTLLFKYTFHQPTHEGYFS CLDIWTLFLDYLTSSKIKSRLGDKEAVLN RYEDALVLLLTEVLNRIQFRYNQAQLEE LADDETLDLDDQTEWQRYLRQSLEVVA KVMELLPTHAFSTLFPVLQDNLEVYVGL QQFIVTSGSGHRLNITAENDCRRLHCSLR DLSSLLQAVGRLAIFYFIGDVFAARFNDA LTVVERLVKVTLYGSQIKLYNIETAVPSV LKPDLIDVHAQSLAGGCRLSAHWLAQY CSEIHRQNTQQFVTLISTTMDAITPLISTK VQDKLLLSACHLLVSLATTVRPVFLISIP AVQKVFNRTDASALRLVDKAQVLVCR ALSNILLPWPNLPENEQQWPVRSINHAS LISALSRDYRNKPSAGAPQRKMPLDDT KLIHQTLQRLRKILWENISGESTKSSTDF AYQFGCRESVQVSLGLFPAFVHQSDVT DEMLSFFLTFRGLRVQMGVPPTEQIIQ TFLNMFTRQLAESILHEGSTGCRVVEKF LKILQVVVQEPGQVFKPFLPSIALCMEQ VYPHAERPSPDVKAELFELLFRTLHHN WRYFFKSTVLASVQRGIAEEQMENEPQ FSAIMQAFGQSFLQPDHFLKQNLFLYLAE TLNTKQKL\YHKKVFRITAMLFQFVNVL LQ\VL\VHKSHDLL\QE\IGHRHSYNMAS VDFDGGFAAFLPEFLATSCDGVADANQK SVLGRNFKMDRVRERERGRAKRAEWA RKPGTCAARRGHIEASGRGLCPPCSLAA AHEMPADLVL
6153	14204	A	6916	1	321	
6154	14205	A	6917	1	259	
6155	14206	B	6918	1	3045	MPDCTSKCRSLKHALDVLSVVTKGSEN QIKAFLLSSH CYNAATIKDVFGRNALHLV SSCGKKGVLDWLIQKGVDDL VKDKESG WTALHRSIFYGHIDCVWSLLKHGVS LYI QDKEGLSALDLVMKDRPTHVVFKN TG LLDPNGEKC VTAPRQVSALHHKDIALSL VAASDGATVCVTTRGDIYLLADYQCKK MASKQLNLKKVLVSGGHMEYKVDPEHL KENGGOQKICILAMDGAGRVFCWRSVNS SLKQCRWAY
6156	14207	A	6919	1	1149	
6157	14208	A	692	3	546	PAPPGRVFAAWPGSEEARVLVVLKGCA CRAGLFKMYPLLPMTEVCTKSSTVTWF CFAAYESLFETPFAIGVSVLVPSWGTLT ALS*VCFAAFA*LLASLFSQDPLVSPSAA MWASPACFCAEPSSAAIGVSSPSSSVFTQ QS**GSPLAGSASASAKNMARARSVAPP RNGRPGNTNADS

6158	14209	A	6920	426	2967	HSAPPAVLROGMSEAGGAGPGGCGAGA GAGAGPGALPPQPAALPAPPQGSPCAA AAGGSGACGPATAVAAAGTAEGPGGGG SARIAVKKAAQLRSAPRAKLEKLGVYSA CKAEESCKCNGWKNPNPSPTPPRADLQQ IIVSLTESCRSCSHALAAHVSHLENVSEE EMNRLLGIVLDVEYLFTCVHKEEDADTK QVYFYLFKLLRKSILQRGKPVVEGSLEK KPPFEKPSIEQGVNNFVQYKFSHLPAKER QTIVELAKMFLNRINYWLEAPSQRRLR SPNDDISGYKENYTRWLCYCNVPQFCDS LPRYETTQVFGRTLRSVFTVMRRQLE QARQEKDKLPLEKRTLILTHFPKFLSMLE EEVYSQNSPIWDQDFLSASSRTSQLGIQT VINPPPVAGTISYNSTSSSLEQPNAGSSSP ACKASSGLEANPGEKRKMTDSHVLEEA KKPRVMGDIPMELINEVMSTITDPAAML GPETNFLSAHSARDEAARLEERRGVIEFH VVGNSLNQKPNKKILMWLVGLQNVFSH QLPRMPKEYITRLVDFPKHKTALIKDG RVIGGICFRMFPSQGFEIVFCAVTSNEQ VKGYGTHLMNHLKEYHIKHDVILNFLT ADEYAIGYFKKQGYCKEIKIPITKYGGYI KDYEGATLMGCELNPRIPYTFEFSVIKK AE/EGIIKKLIERKQAQIPKKFTLGLSCFK DGVROIPIESIPGIKKAIGWNPSGKEKSKE PRDPDQLYSTLKSILQQVKSHQSAWAF MEPVKRTEAPGYEYEVIRFPMDLKTMSE LKNRYVYVSKKLFMADLQRVFTNCKEYN AAESEYYKCANILEKFFFSKIKEAGLIDK
6159	14210	A	6921	1	184	
6160	14211	A	6922	114	384	
6161	14212	A	6923	141	1741	
6162	14213	A	6924	1	153	
6163	14214	A	6925	1	200	
6164	14215	A	6926	2	242	
6165	14216	A	6927	132	251	
6166	14217	A	6928	132	251	
6167	14218	A	6929	2231	2578	PLPPGSRTLHWMAPDEEDFRIGN*TMNA IFFFLFLFFFFFFFLRQSFALVVQAGVQW HDLSSLQPPPPRFK*FSCSLSPSGWD*RH APPRPAIFVFLVEMGFHHVNQDGLDLT W
6168	14219	A	693	3	389	DAWVDPRFRLIFLKTLTGKTMAVDLEPN DTIANAKA*IQDKEGIPPDQORLIFAGKQ LENGRTLDPYIIHKESTLLLVLRLKGGMQ IFVKTLTA*TISLQAEPSTIHN*EKIQD KESIPPDQHTVIL
6169	14220	A	6930	2	94	WRDLGSL*PPPGFKRFS*LSLKSHPNVT S
6170	14221	A	6931	130	295	GIISNADFVSFFFF*DGVFALVAQAGVQ WRGLGSLQPLPPGFKRFSCLSLPSTW
6171	14222	A	6932	3	403	TYKILDFIVNSIRHRRGTFRFGHTEVTS MTLDFIGAG*/SNLQ*PAST*PGDQY*I*L LQST*NYVLHKFQLPTWGRSEISEQAV SAKEKT*KS/T*LALVK*ARTLESNWPGL *ILILISLSCMIWTNDSNLF
6172	14223	C	6933	78	335	MWSPLTKEIFSCPTPQTGAFKGTCLKRA PXXXXXXXXXVKIGXXXXXXXXXXXXXXXXX XVSPRPLSARVLAPCLGCDFFVSFNRTTV WK*
6173	14224	A	6934	1	143	
6174	14225	A	6935	1	1676	
6175	14226	A	6936	1	161	
6176	14227	A	6937	61	742	
6177	14228	A	6938	7	238	
6178	14229	A	6939	1	213	

6179	14230	C	694	70	225	MNIQYIQH...YQNVRSQRESTGRWSH CCPSQGRSRRIPFTVEEIQQHGV*
6180	14231	A	6940	1	257	
6181	14232	A	6941	3	279	GSGWDGRGQSGRVADSS*ARVLSALRE VNKIRLQDLRSLSPKPPQGQEQQGED EVVLVEGPTLPETPRLFPLKIRCADLVR LPLRMVSA
6182	14233	A	6942	73	816	
6183	14234	A	6943	1	484	
6184	14235	A	6944	1	1758	
6185	14236	A	6945	1	1420	
6186	14237	A	6946	186	209	QLWPN*LLSRNKEATLRYSQLPTCHSICY *MPAF*HTISDLSFNKNINCKSYHLRVFY KYV*IVCHF*VPKVYWTKYQTSCT*W R*SGVE*PPISSSSSACCLRLPTEGTCF EIFWNPRLGISAECRDSCGPTSF
6187	14238	A	6947	2	2948	
6188	14239	A	6948	1	616	
6189	14240	A	6949	1	1913	
6190	14241	A	695	277	396	EAP*HPDFIKNMITGTS*ADCAGLIVAAG GGVFKSWDLQK
6191	14242	A	6950	3	185	
6192	14243	A	6951	112	569	
6193	14244	A	6952	1	1210	
6194	14245	A	6953	75	333	
6195	14246	A	6954	271	512	GAVGRPRSQQKSIGVPGWVSPGF*ECGK RRMTFVLLKHIMLLFARFQQIMRNIPRR LAEHMQQLFSSCPSLMRAFEVT
6196	14247	A	6955	2	184	
6197	14248	A	6956	13	163	
6198	14249	A	6957	627	847	
6199	14250	A	6958	3	144	
6200	14251	A	6959	1	2008	PAAADARRPRAPATMRPRKAFLLLLL GLVQLLAVAGAEGPDEDSSNRENAIEDE EEEEEDDDDEEDDLEVKEENGVLVLND ANFDNFVADKDTVLLFYPWCGHCKQ FAPEYEKIANILKDKDPPIPVAKIDATSAS VLASRFVDSGYPTIKILKKQAVDYEGS RTQEEIVAKVREVSQPDWTPPEVTLVL TKENFDEVVNDADIILVEFYAPWCGHCK KLAPEYEKAAKELSKRSPPIPLAKVDAT AETDLAKRFDVSGYPTLKIFRKGRPYDY NGPREKYGIVDYMIEQSGPPSKEILTLKQ VQEFLKDGDDVIIIGVFKGESDPAYQQY QDAANNLREDYKFHHTFSTEIAKFLKVS QGQLVVMQPEKFQSKYEPRSHMMDVQ GSTQDSAIKDFVLKYALPLVGHKVSND AKRYTRRPLVVVYYSVDFSDYRAATQ FWRKVLVAKDFPEYTFIAIDEEDYA GEVKDLGLSESGEDVNAAILDESGKKFA MEPEEFSDTLR\ELVTAFKKGKLPVIK SQPVPKNNKGPVKVVVGRTFDSIVMDP KK\DVLEIFYAPWCGHCKQLEP\VYNSL A\KKYKGQKGLVIAKMEAP\ANDVPQRP AIRVEGFPTIYFRPPVGDKKDP\VKFEG GDRDLEPFEPFIEEHA\TKLSRTKEEL
6201	14252	A	696	549	707	SQNFWRPMWADHLRLGVRDQHGQHGE TPSLLKIQKLAGEHGGGRL*SQLVRKLR
6202	14253	B	6960	137	214	ASQFPIEWRPVKDAATVDSEPALPQQ*

6203	14254	A	6961	1	625	PSLKGQKLELHRGAAALELVDPPGCRSG LVHARGCTYSQLWSRSHPFCCSRGPLA MAGILFEDIFDVKDIDRKAKKFDRVSR HCESESFKMDLILDVTIQIYPVDLGDKFR LVIASTLYEDGTLDDGEYNPTDDRPSRA DQFEYVMYGVYRIEGD\ETSTEAAATR LSAYVS\YGGLLMRLQGDANNLHGFEV DSRVYLLMKKLAF
6204	14255	A	6962	1	273	
6205	14256	A	6963	135	233	
6206	14257	C	6964	198	449	
6207	14258	A	6965	1	1278	
6208	14259	A	6966	1	325	
6209	14260	A	6967	525	661	TEILSGSLGSEIFTTSES*RPGLGPSFVIFLF SSSVCLNIFFRVL
6210	14261	A	6968	1	293	MAGTPPPALLPPCSLISDCCANNQRDSV GVGPSEPGAGYNLVVRSFLSPSEKRSVR VGVTRLFQGRPSPLSLTQKGNPLTPCAS QFTSTISDGRIMV
6211	14262	A	6969	1	1372	
6212	14263	A	697	82	417	AFQEMELKRPQEEDVAALPEGMRPHSN LYGFSWE*VICAADVGLFAALFFLWRSF RTVRIHVGRRERKLALMLSGLNQ*KSEL LGHCILAQNEYDGYELDE*FVDLRVDKE
6213	14264	A	6970	2	277	KNEMTLDAYIFLADMAAYQEEQMQLP RADAIRSRLIDTFLIEHLQGLSQA VPRH TIRELLGQQPISSLI*I*DSYPHPLHLRVEN SGEV
6214	14265	A	6971	434	563	ETTFYNEQRGPQPHLPEVKKKYRGN*EA KTK*LRPENWKGDL
6215	14266	A	6972	197	1247	ALVRLDSWMGLNTTANLGGGMTEMAR GVTPWICPRSSAERARSGIPAAMPISVK ISGPQLLIGPNPPGSKRWARNSSCSEH CR/SQGAQEESCLAQHH/TPSAPSQMT*T PNC*CAGAPLAHVHRGITQRCQMNEVQ VAHMP TTL*ETGDHNAELSGAPAIYLP QGAQHSPVH*DQLL*FPIS*TY*EPTKLQ DLLRTKSPGGTPQLCFHAH/ALPAVPQAQ VLGLLQIMSGSPQSLRAPSLQSGLQTRLL GMSLVHLHNLAQVLEDPPQLVAPP/T/D YQGCFLGSKLWLP TQLSN/VCSAPSSAAF LEAAPGSLDPRPPGFVPSLPGLPGGGGS VPAAALELFAPAPPPT
6216	14267	A	6973	232	476	IFVSSYYHVNLFFRFT*AHSSSH*TNPQD LYPYQHGNKVKDIPGTLPENRKVG*PL KKDLQDENKQDKPSCHLQGLQWP
6217	14268	A	6974	442	698	
6218	14269	B	6975	546	1820	LLNCP LFCYGLTSVLHVTCFFSHHGY DTSKDNGAKQPKDEIDAAEDATDFRH LPDVLKQCIPMIQASQPADSAVPATSGK VYGTPELTPTNIEAAPLAEEHASSA TSITECDKLSSFATSAEDQSVASLTAPQ TEETGKSSLLDVTISIPSSRTEATQGLD YVPSAEDKGFKSPCEDFSVTGESEKRG EIIGKGLSGERAVEEEEEETAHVEMSEKL CSQYGTVPVFSAPGHALHPGEPALGEAEE RRLSPDDSTVKMASPAPSGPPSGHTHPFH ESPVEEKSEPQDFQEADSWGDTQRTTSV GKRKAAEELRCLVRTGRSIRGLSLPPACT RAERREVERVVVDALSGLKGDLAGRYY RLSEMTEAEQQQLIDDHFLDKPVSPLLT AAGMARDWPDARGIWHNNEKSFLIWW N*
6219	14270	A	6976	2	480	
6220	14271	A	6977	1	2043	
6221	14272	A	6978	1259	1497	

6222	14273	A	6979	2	425	
6223	14274	A	698	751	1063	FYQDKRHQPGIVAAACNPFGRSRQEDLL RS*VGDPQGQHSESPSMQKI*KLAGHGG AHV*S*LLRRPRQDNPLSPGGQGCSVL*S HHCTPAWATQGDPSGSKSKN
6224	14275	B	6980	259	329	XFRKKEQKIQCKGTAGQALIKE*
6225	14276	A	6981	1	1251	
6226	14277	A	6982	1	421	
6227	14278	C	6983	120	371	MSAHSHPTCTINGHTPVSTITYXXXXXXGG PFKRTLGGPKFNGGGQGKIFFMGGGLFK PSLGFLEKNLFXXXXTYGATPPPKF*P*
6228	14279	A	6984	76	251	ALKFCRGVFPFSPQKFLFQNSPGGFFF PPLKEKNFSFPP*KSSSPKPLNFVGGFFP FFPPP/NKKFLFQNSPGGFFFPPLKEKNFS FPPPVKFGPPQGSF*TPPP
6229	14280	C	6985	193	315	MGGQLKPSLGFLEKNLFFGGEKNHGX XXKFKPLGXXXXF*
6230	14281	C	6986	363	413	
6231	14282	A	6987	1	1088	
6232	14283	A	6988	64	1279	LAPGAVGKGRGHTLPCSAARMGVKAS QTGFVVLVLLQCCSAYKLVCYTWSWQ YREGDGSCFPDADRFLCTHIYSFANIS NDHIDTWEWNDVTLYGMLNTLKNRNP NLKTLSSVGGWNFGSQRFKIASNTQSR RTFIKSVPPFLRTHGFDGLDLAWLYPGR RDKQHFTTLIKEMKAEFIKEAQPGKKQL LLSAALSAGKVTIDSSYDIAKISQHLDFIS IMTYDFHGAWRGTTGHHSPLFRGQEDA SPDRFSNTDYAVGYMLRLGAPASKLVM GIPTFGRSFTLASSETGVGAPISGPGIPGR FTKEAGTLAYYEICDFLRGATVHRTLQ QVPYATKGNQWVGYYDDQESVKSKVQY LKDRQLAGAMVWALDLDLDFQGSFCGQ DLRFPLTNAIKDALAAT
6233	14284	A	6989	3	174	
6234	14285	A	699	3	17	
6235	14286	C	6990	116	181	MCSTSRSRFTNILKSCNLLKY*
6236	14287	A	6991	20	111	
6237	14288	A	6992	120	426	
6238	14289	A	6993	2	112	
6239	14290	A	6994	24	316	FLFLFFETESCSVARLECSGAJSAHCKLC LPGSRHSPASASSQVAGSTGACHQA/QA NFVVFVFLVETGFYRVSPG*SG/LSLELVIR PPRPPKVLGLQV
6240	14291	A	6995	80	326	
6241	14292	A	6996	1	233	
6242	14293	A	6997	1941	2223	RTPRMKQSPAPIPCQPTTCSGCMASRAT RTGWTSVCAYCRLFRAHAICVPVALPE MVRALSAQQQTLKQIVICGDRQAKDTK ALGAVRPLCLHS
6243	14294	A	6998	211	544	
6244	14295	A	6999	31	230	
6245	14296	A	7	46	1069	ESKHGNFFWVIFLCYCTKEERTQLQKQK TDEYFRMKLQWKSISQEQEKRNSRLRD YRSLIEKDVNRTDRTNKFYEGQDNPLI LLHDILMTYCMYDFDLGYVQGMSDFFS PFLYVMENEVDFAWCFASYMDQMHN FEEQMQGMKTQLIQLSTLLRLLDSGFC YLESQDSGYLYFCFRWLLIRFKREFSFLD ILRLWEVMWTELPCTNFHLLCCAILSE KQIMEKHGYGFNEILKHINELSMKIDVE DILCKAEAISLQMVCKELPQAVCEILGL QGSVAVTTPDSVVG*RTKMLVNDFLGPT VCISKVTALPTLSASGARNDSPQIPVSS RCLQD



6246	14297	A	70	170	340	TDSALGSPCLHPTALCAVCGTA*SST/GL VALALMRLEILKSSVPAVMAGIITIYNL
6247	14298	A	700	3	443	
6248	14299	A	7000	1	861	
6249	14300	A	7001	55	406	
6250	14301	A	7002	1	361	
6251	14302	A	7003	1	1725	
6252	14303	A	7004	1	1271	
6253	14304	A	7005	3	329	LIKLCCKSAKSCENDLEMGMNSKFCKT RYQAGMRNSENLTANNTLSKPTRY/QGE LKEIKQDISSLRYELLEKSQATGELADLI QQLSEKFGKNLNKDHLRVNKGKDI
6254	14305	A	7006	1	801	
6255	14306	A	7007	21	373	
6256	14307	A	7008	3	63	
6257	14308	A	701	147	437	WYVKKERKKERKQERKKERKKERKKE RKKRKRERKKER*REEREREGRKEGRKE GRKEGRKEGRKEGRKKGRREGREKERE RKKEREISREYDSEK
6258	14309	A	7012	1	521	MSSKRTKTKTKRPQRATSNVFAMFDQ SQIQEFKEAFNMIDQNRDGFIDKEDLHD MLASLGKNPTDEYLDAMMNEAPGPINF PQWFSPMLVRSLNAPDP'ENVIRNAFACF DEEAPGPIQEDYLRELLPTMGDRFTNEE VDELHREAPIDKKGNFNYIGFTRILEHGA AKDKDD
6259	14310	A	7013	106	693	TTTMSKKAKTKTKRPQRATSNVFA MFDQSQIQEFKEAFNMIDQNRDGFIDKE DLHDMLASLGKNPTDAYLDAMMNEA PGP'INSTMF'LTMF'GKFKSHRSPEDVI/ RANGLCFCSDDEEATGHFPQED/YTLRELL TNPWGDARFPDGGKWMNLYQRKHLIGP KKGEFSNYIGVHHGILTGRPPKHKDDLK ELLA
6260	14311	A	7014	78	188	
6261	14312	A	7015	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6262	14313	A	7016	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6263	14314	A	7017	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6264	14315	A	7018	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6265	14316	A	7019	2	94	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6266	14317	A	702	505	637	CLLLNSIYRRHQGR*DGKERKKDRKKE RKKERKKERKKERKKERKKE
6267	14318	A	7020	1	418	RRLRTAMKLRSRHPDQTDWHDQQYNKA HLGAALQANPLGGAHAHAKGIVLEKVRV EATQPK'SAIMK/CVRVQLIKNGKKITAF VPNDGCLNFIENDEVLVAGFGRKGHAV GDIPGVRFKVVKVANVFILALYKGKKER PRS
6268	14319	A	7021	2159	2334	SATNYRNLTVLELGNSTHRHSHKTNST* KNCTRIPTSQLNK*VKKHQSHICQSNCP F
6269	14320	A	7022	1748	1821	
6270	14321	A	7023	2179	2485	
6271	14322	A	7024	3	502	TARAWLLGPVWPCVSEWWSKKPSPRG GRDPSDRDPAFAARSTVPPRISAYERPV PWPGEWNPGRGRRASAVVSPREGNW GVLDPRLQARKPRMVRSRQMCNTNMS VPTD/GCCNHLTDSSFGTRDPG*TKAJAF EVIKVCWCTKRHLYYERGSFLSWPVYY D
6272	14323	A	7025	89	291	

6273	14324	A	7026	1295	1429	
6274	14325	C	7027	332	763	MTGCLNFIEENDEVLVAVIWSQKVMLL VIFLESXFKVVQSSPMVSLALYKWLYG ETKIINMNGENTVVINFHMPKNVCILLSP VLTTKIMFITTTTPPYFFYPKPVNAGPVPI LGNNKTGLFQDSLELITFVTWHSFHPVE *
6275	14326	A	7028	89	184	
6276	14327	A	7029	2	274	LDLDSIKIVKKLKLTFGPYKIFKNTSFI/ KDIVFMRTWYPVSIPAFYNPVTSLKPV/ GEKDTWSGMWTTGHLGL/AHGVRCLKTN KDSLYKGLV
6277	14328	A	703	220	476	HNSLVVYYFEIWSRILFVYSCSIHTSVVT H*SLLSLGHLKYIWAGHGVSHL*FQHF RPRWENHLRPGL*DQPGQHSETPSLLKK
6278	14329	A	7030	178	619	PPRHVQLNHAEFEDQDEARVQYEGFR PGMYVCVEIENVPCFV*NFDPRYPILG GLGNSEGNVGYVQ/IPITPQGTGFLAIQSV SGIMPDFRIAATGVVLDLDSIKIVKKLK LTGFPYKIFKNTSFIKGMFNSALEVAKFE GAVF
6279	14330	A	7031	159	484	DPITPQGTGFLAIQSVSGIMPDFRIAATGV VLDLDSIKIVKKLKLTFGPYKIFKNTSFI KGMFNSALEVAKFEGAVIRTISGIRGQIK KAL*APEGAFRASFEKLL
6280	14331	A	7032	19	3881	IATMEAKDQKKHRKNSGPKAAKKKKR LLQDLQLGDEEDARKRNPKAFAVQSAV RMARSFHRTQDLKTKKHHPVVDRTPLE PPPIVVVMGPPKV GKSTLIQCLIRNFTR QKLTEIRGPVTIVSGKKRRLTIECGCDIN MMIDLAKVADLVMLIDASFGFEMETFE FLNICQVHGFPKIMGVLTHLDSFKHNKQ LKKTKKRLKHRFWTEVYPGAKLFYLSG MVHGEYQNQEIHNLGRFITVMKFRPLT WQTS
6281	14332	A	7033	182	374	
6282	14333	A	7034	2	198	
6283	14334	A	7035	1	457	
6284	14335	A	7036	2	145	
6285	14336	A	7037	55	193	
6286	14337	A	7038	564	882	
6287	14338	A	7039	257	513	KFFSFLSSACCLEQVLCFVLFVFFVFLLLII FSFFFSFSFSFFFFSSSSSSSSFSFFFFL WS/PRSAQAGVQ/WS*FGSLQPP
6288	14339	A	704	1	554	DLILNHLFFCFVIRQQFSFLFFPSFFHFI AMLTHQSYVIFLSVYTVIHLDFYISLFLT YDIMYF*TKINT*AKLLLIYENMLIVL*CS AFLSNYTVLIVQIIASLIHSSTK*ISQCANII KI*IIH*L*SSVEINSYL*LFCYLVYSAIIL ELVLQSQFSYMYILRIQLDFLNEEMHI
6289	14340	A	7040	936	1317	ILVLHGCFICWWYLCLSMYFFNFNFEME SRSVAQAGVQWCA/DLCSLQAPPAGFTP FSCLSLPSSWDYRHPPRLAKFFVFLVET GVFHRVSQDGLDLTSGDPPTSASQSAGI TGVSHRARPLKHL
6290	14341	A	7041	1	1218	

6291	14342	A	7042	1	1169	MAPPSPSTSSNNNNSSSSNSGWDQLSKT NLYIRGLPPHTTDQDLVKLCQPYGKIVST KAILDKTTNKCKGYGFVDFDSPAQAQK AVSALKASGVQAQMAKQEQDPTNLYI SNLPLSMDEQELENMLKPFQVISTRILR DSSGTSRGVGFARMESTEKCEAVIGHFN GKFIKTPPGVSAPTEPLLCKFADGGQKK RQNPKNYIPNGRPWHREGEVRLAGMTL TYDPTTAAIQNGFYSPYSIATNRMITQT SITPYIASPVSAQVAKETRENKYRGS KVQSPSWMQPQPYLHDPGAVLTPSMEH TMSLQPASMSPLAQQMSHLSLGSTGT MPATSAMQGAYLPQYAHMQTTAVPVVE EASGQQQVAVETSNDHSPYTFQPNK
6292	14343	A	7043	1	743	
6293	14344	A	7044	2	171	
6294	14345	A	7045	1	350	
6295	14346	A	7046	2	1685	
6296	14347	A	7047	47	218	
6297	14348	A	7048	3	1716	GRCCCFSPDGKALAVGLNDGSFLMANA DTLEDLVSFHHRKDMISDIRFSPGIWPVI GEVTDVTASCLTSDKMVLATGDDLGFV KLFRYPTKASSEQGPPTARETPDKQCRQ EKETYRATAPSIHIWDAMNKQTLISILRC YHSGVCSVSFSATGKLLSVGLDPEHTI TIWRWQEGAKIASRAGHNQRIFVAEFRP DSDTQFVSVGVKHVFWTLAGRALLSK KGLLSTLEDARMQTMLAIAFGAGKILVG TRNAEIIIEVGEKNAACNILVNGHVDGPI WGLATHPSRDFFLSAAEDGTVRLWDIAD KKMLNKVNLGHAARTVCYSPEGDMVAI GMKNGEFIILLVSSLKIWGKKRDRRC DIRFSPDSRYLAVGSSENSVDFYDLTLGP TLNRISYCKDIPSFVIQMDFSADSSYLQV SSGCKYKRVYEVPSGKHLMGSSAIDRIT WATWTSILGDEVLGWISRHAEKADVNC ACVSHSGISLVTGDDFGMVKLFDFPCPE KFAKHKRFLGHSPHVTNIRFTSGDRHV SAGGDDCRLVTFSAEHEQTMLLVKRLN TTIPTALVYEIS
6298	14349	A	7049	1	5853	
6299	14350	A	705	1039	1560	SLVLDLTGLPRPTSPSHERGLDSSSSGPG LSTGP*ECSPDPNPMCPKVLPGPDQRCW NSHSTAPIAFPEPVRSR*SGSWTPVPATG ATLNPRCQRGLAIPNSLVSSP*GPAGWRE LPSSQQAHPHPR*GALRSENREQEPDQ GCGNCFVKYGGVRVGRVGYSGPVRTGCS RASN
6300	14351	A	7050	1	426	LKQQIEEQRVQVQVVERAQQVAVQE ARAEAEQMAKKA/AFQLYQEAQQLDM LLEKLPQVAEEISGPLTSANKITLVSSGS GTMGAAKVTGEVLDILTRLPESEVRLT GVITILPRLNHKAF*RTALSQPSQMPSLI AE
6301	14352	A	7051	162	1449	
6302	14353	A	7052	57	389	

6303	14354	A	7053	162	1581	TMFFTCGPNEAMVVS GFCRSPVVMVAG GRVFLPCIQQIQRISLNTLTLNVKSEKV YTRHGVPISTVGIAQVKIQGQNKEMLA ACQMFLGKTEAEIAHIALETLEGHQRAI MAHMTVEEIKDRQKFSEQVFKVASSD LVNMGISVVS YTLKDIHDDQDYLSLHGK ARTAQVQKDARIGEA EAKRDAGIREAK AKQEKVSAQYLSEIEMAKAQRDYELKK AAYDIEVNTRRAQADLAYQLQVAKTKQ QIEEQRVQVQVVERAQQVAVQEIEIARR EKELEARVRNPAEVAERYKLERPAEAEKS QLMQAEAKVAASVRMRGEAEG LCP*GP EPRAEVAEQMAKKA EAFQLVPRGVAQL DMLRRESCPRWQEESGPLNFSPIRSPLV SSGSGTMGAANKVTGEVLDILNSPCPES VERLTGREHLPRVNHAKPLKNSLEPSAL HRCPASLA E VALNDPPVACNPLGLPEHV H
6304	14355	A	7054	1	327	
6305	14356	A	7055	1	202	
6306	14357	A	7056	1	493	
6307	14358	A	7057	409	521	
6308	14359	A	7058	296	869	
6309	14360	A	7059	1	848	MPGLRVKMPCGPGISQDEAVWSMDDNF EVNKKHPVWRAATLAKDCKNQSAQAV TVYNKPASFFKEAPLDLQHRLFMKLGST HSPFRARVFFCSFISEPEDPATERLAFTER DAGSRLVTLHERPALLVSSTSWTGKGP LREYYSR LIYQKHFQHIQVCTPWLGAED YPLIGSADLG VCLHTSSSGLDLP/L*KV VDMFGCCLPVC AVNFKVFTLVKHEEN GLVFEDSEELAAQLQMLFSNFPDPAGKL NSFRKNLPESQQL*WDES WVQTVLPLV MDT
6310	14361	A	706	644	930	EGSHGLGVVAHACNPSTLGNRCGVDHL SSGVQGPQGHGKTPFLQKIQKLAGHG GTRL*SSYLRLRWEDEGGRCSEPRSRH CTPAPWATE*DPV
6311	14362	A	7060	738	1902	FHHLTETNSPNYFITMALNVAPVRDTKW LTLEVCRQFQRGTCRSRDEECKFAHPPK SCQVENGRVIACFDSLKGRC SRENCKYL HPPTHLKTQLEINGRNLIQKTA AAML AQQMFMFPGTLPHPVPTFPVGPAGTN TAISFAPYLAPVTPGVGLVPTILPTTPVI VPGSPPVTVPGSTATQKLLRTDKLEVCR EFQRGNCARGETDCRF AHPADSTMIDTS DNTVTVCMDYIKGRCMRECKYFHPPA HLQAKIKAAQP/QAAATVMTQSTAKAM KRPLEATVDLAFPPGALHPLPKRQALEK SNGTSAVFNPSVLHYQQAL TSAQLQHQ AAFIPTGSVLCMPATSI VPMH SATSAT VSAATTPATSV PFAATATANQIILK
6312	14363	A	7061	1	240	
6313	14364	A	7062	3	354	
6314	14365	A	7063	1	621	
6315	14366	A	7064	362	720	
6316	14367	A	7065	1	2610	
6317	14368	A	7066	122	1840	
6318	14369	A	7067	1	1433	
6319	14370	A	7068	3	324	
6320	14371	A	7069	3	421	
6321	14372	C	707	185	397	
6322	14373	A	7070	3	552	
6323	14374	A	7071	3	600	
6324	14375	A	7072	3	550	
6325	14376	A	7073	1	102	

6326	14377	A	7074	3	1451	GAVRTWGRQFQTEKCQASLLNFWNPPT TAQVTIEAEPTKVSKGKDVLLL VHNLPQ NLAGYIWYKGQMKDLYHYITSYVVDGQ IIYGPAYSGRET VYSNASLLIQNV TREDA GSYTLHIVKRGDGT RGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLD SVLPCVISA EVSPRS GFPVSKGFKDNWK FHHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQH CMLQVRTT SVETPKPSISSSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTLNLLPKLPKYITINLNPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILILPSVTRNETGPYQCEIQDR YGGIRSYPVTLNVL YTTKHSGLYACSVR NSATGMESSKSMTVKVSAPSGTGHLPG NPL
6327	14378	A	7075	3	435	
6328	14379	A	7076	79	1516	
6329	14380	A	7077	9970	11210	MKDACGGIKGATQDNLLSTQ/PKLPMP YITINLNP REKKDVLAFTCEPKSRNYTY IWWLNGQSLPVSPRVKRPIENRILILPSVT RNETGPYQCEIRDYGGIRSNPVTLNVL CEYPLFLCGPHQLNSKRPEARPLSLSPV QV*TLLLDIRPGHDSL PWEILGRHSLNQ EYKGRGALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHLRLCLGSEGHCVPLR DQEHPLPLDDITCGFILFPPDGPDLPRIYP SFTYYRSGENLDLSCFADSNPPAEYSWTI NGKFQLSGQKLFIPQITTNHSGLYACSVR NSATGKEISKSMIVKVSGKWIPASLAIGF *VESIWLSEKSQENICIPRLCPMGTSKSI LLLNPPLSLQTLFCLFFCFLMADLVSGL RKVGRGLYQP
6330	14381	A	7078	460	1832	QPVLEFLDPRLISTEENTQAAETMGTL APPCTQRIKWGLLLTASLLNFWNLPTT AQVTIEAEPTKVSEGKDVLLL VHNLPQ LTRATIWYK\GQMRHLYHYITSYVVDG EIIYGPAYSGRETAYSNASLLIQNV TRE DAGSYTLHIK\RGDRTRGVTGYFTFNLY LETPKPSISSSNLNPREAMETVILTCNPET PDASYLW*LNGQ\NLPMT HSLQLSKAN RTLYLFGV\TNYTAGPYECEIWELRECQ ARSDPV\TPEFSSRKL PKPYITINLNP GEE *GCL*TFIC\EPKSENYTYIWWLNGQKPP/ VSSPRVKRPH*KTGSLIPTPVFTRKWQKQ PYSMWNYGDRYGGIRSLPSSPLNCSSYG SRTSPRILPFHFTY YRFREENLDLFLGFT GIFNPP\AQYSWDN*WKS FQLTRGQKLF YSGHITTKHSGLYVCSVRNSATWQGKA PNP
6331	14382	A	7079	2	315	RWSLCPLQAGVQWRDLCSLKPPPPEFKQ FSCLSLPSS*DYRCPPPCPANF/SFFFVFLV ETGFHHVQGAGLNLTSRDL LTSASQSA EITGMSHCPRPTLSNSRVL
6332	14383	A	708	3	521	CKMDAGFFRGTSAEQDN RVSNKQKVL LKQLKFAECLEKKVDM SKVNLEVIKPV ITKRVT EILGFEDDVIEFIFNQLEVKA*T KMEVIPCV*SIAPSPY*VTAE*VSQCRSDP TPLMMQCVFGNPD SKMMQINLTGFLNG KNAREFMGELWPLLLSAQENIAGIPSAFL EL
6333	14384	A	7080	1	534	
6334	14385	A	7081	1217	1545	

6335	14386	A	7082	2	1665	KKKKKQKNNKSSSTGEASENGLEDIDRIL ERIEDSTGLNRPGPAPLSSRKHVLYVEHR HLNPDTELKRYFGARAILGEQRPRQRQR VYPKCTWLTTTPKSTWPRYSKPGLSMRL ESKKGLSFFAFEHSEYQQAQHKFLVAV ESMEPNNIVVLLQTSPIYHVDLSLLQLSDA CRFQEDQEMARDLVERALYSMECAFHP LFSLTSGACRLDYRRPENRSFYALALYKQ MSFLEKRGCPRTALEYCKLILSLEPDED LCMLLLIDHLALRARNYEYLIRLFQEW AHRNLSQLPNFAFSVPLAYFLLSQQTDL ECEQSSARQKASLLIQQALTMFPGVLLPL LESCSVRPDASVSSHRFFGNAEISQPPA LSQLVNLYLGRSHFLWKEPATMSWLEE NVHEVLQAVDAGDPAVEACENRRKVLY QRAPRNIHRHVILSEIKEAVAALPPDVT QSVMGFDPLAPSDTIYASYVRPERLKSLS SHGNTUALFFRSLLPNYTMEGERPVEEG VAGGLNRNQGLNRLMLAVRDMMANF HLNDLEAPHEDDAEGEGEWD
6336	14387	A	7083	420	627	
6337	14388	A	7084	2	380	
6338	14389	A	7085	2	657	
6339	14390	A	7086	2	842	
6340	14391	A	7087	174	463	GSLKQGMFPGSLNRRLPTEPLQILRATF L*KEVA*GLHQYHLPL\QLSGPVFGLTH LQSAPVFREKPDPPPELPSLRVLRRTLDS WGARTHNYGI
6341	14392	A	7088	69	194	
6342	14393	A	7089	1348	2204	TWRLDPQIISPKPQPGGYTLEVVKSSK SKKVLSPPH*WPLRLWQR\GGSPEGGT QAPDGLPPPPPRPKSERVSGPKLSGGKR /EGSHPGGPPHITHP/DGEEKAKSSWFGL REAKDPTQKPSHPVKPLSAAPVEGSPD RKQSRSSLSIALSSGLEKLKTVTSGSIQPV TQAPQAGQMVDTKRLKDSAVLDQSAK YYHLTHDELISLLQRERELQRDEHVQ ELESYIDRLVRIMETSPTLLQIPPGPPK
6343	14394	A	709	730	983	GAVAHICKSQQFGRPRQAHQLRSRV*DQ PGQNDETPSILKIQKLAGHGGTRPLSQLL RRLRH*NHLNPGGGGCSELSRHCIPG
6344	14395	A	7090	2	762	
6345	14396	A	7091	2	218	
6346	14397	A	7092	7	78	
6347	14398	A	7093	553	954	SRSRRGQRRRWSTVWRLSAGACALSM QTPSRTSWPTAPFRAIWRAETVAAWCRL RRPVWRVWSWSCLPTPITRATPLGARS WPGWRMWPPLOPAGSAVPTLR*RPLKF PLPRVPGRRPSGAQSHREQCLQT

6348	14399	A	7094	1	1215	MTLKEHAATKHLFNKAHLAPPLIHLTL GHSTCFREHWVGDIVHRDLKLENIMVK SLIDDNNEINLNLIKVTDFGLAVKKQSRSE AMLQATCGTPIYMDRGWNSLEGSEQDR KMWDLSLELPRLDLLNVFEQNADNDMDD EIQAEVLSDGDEELLGNWSKGDSYVLL KQLAAFCPCLRDLWNFKLERDDLGYLV EEISKQQSIEATWVLLKAFSFIREAEHK NLNENLQPDNAIEKKIPFSEEKFKLAAEIC SNQEANVPDNEKNVSRACQRSSQP LPLPRVLGGKSGFVGWAQDSHAEIYTFG RILGKGSFGVIEATDKETETKWAIKKV KEKLLLKMSNFLQPVRTTLICAVQVSHL ANSFQLKSREKWRKPL*LKEHAAFKHLF NKAHLAPPLIHLTLSGHSTCFREHWVDI VHRDLKLENIMVKSSLIDDNNEINLNLIK TDFGLAVKKQSRSEAMLQATCGTPIYM DRGWNSLEGSEQDRKMWDLSLELPRLDL NVFEQNADNDMDDEIQAEVLSDGDEEL LGNWSKGDSYVLLKQLAAFCPCLRDL WNFKLERDDLGYLVEEISKQQSIEATW VLLKAFSFIREAEHNLENLQPDNAIEKK IPFSEEKFKLAAEISCISNQEANVPDNE KNVSRACQRSSQPLPLPRVLGGKSGFV GWAQDSHAEIYTFGRILGKGSFGVIEAT DKETETKWAIKKVNEKSTAYEKQFPAT SKDNFDMCSSFTSSKLLPAEIKGEMEKT PVTPSQGTATKYPAKSGALSRTKKKL
6349	14400	A	7095	1	770	
6350	14401	A	7096	7265	7684	IVSLFLFILLVFWWWCCFFFFFETVLLFS PRLQCRDV TSAHCNFCPPGSSDSRASAF RVARITGAHHDTWLIFCIFS RDRVLS CWS GWSRTSDLR*SALPKCW DYRCPPCRA* FFFLYPLTIPTSLPAPHYP PSLW
6351	14402	A	7097	1	344	
6352	14403	A	7098	3	285	
6353	14404	A	7099	346	517	
6354	14405	A	71	134	450	QSPDSMNAREFRRRGMEMVDYVAYYM EGIEGLLVYPDV*PGYLRALIPAAAPH*L DTCEDIISDA/EKIIMPGLSHWHSPDLFVY FDSVSSYARMLED MQCGALDC
6355	14406	A	710	108	418	GWGGLLIARPPFKRGKSSGPVGH LKPRG VGGRRG*NVNLC PKSSNPQGGLGERPRE LRDKATVSALANFTARKGC*LRGPEGGQ PGRPGLFPKGVPGVQGP
6356	14407	A	7100	3	173	
6357	14408	A	7101	256	352	
6358	14409	A	7102	1	203	
6359	14410	A	7103	1	112	
6360	14411	A	7104	1	1213	
6361	14412	A	7105	3	413	
6362	14413	A	7106	45	537	
6363	14414	A	7107	2	224	
6364	14415	A	7108	179	393	DKWRRLPWKR GVEVG TAGSLAKA FGFF AEAKTEPREGCS EGVRI SYQ*VQQT NS KCLKY*MEPARPT FSP
6365	14416	C	7109	21	410	
6366	14417	A	711	274	394	SFPKP EVGGG KFLNLGG QRFWGPKFG PL FSAKTKKGTS FLK*GFKNPPAQGGKPPFF LKIQN*PTLGGG PLNPHFLRRLGG ENF*T SEGKGFGDPNALC SPKQKKGLLF
6367	14418	A	7110	3	178	
6368	14419	C	7111	134	295	MNSVPLAKSVGLLRTRYDSPKQPLLCS EAVVLICKDL SRGWQKPGTQGIGG**
6369	14420	A	7112	3	864	

6370	14421	A	7113	3	155	
6371	14422	A	7114	1	122	
6372	14423	A	7115	84	579	NWKAGMGRPSTADYAMFKVVHEVD\K YRFTYAYFAGGDAEDAFDGYDFGDDPS DKFFTSVHNGMQFSTWDNDNDKFEGNC AEQDGSWWMNKCHAGHLNGVYYIQG GTYSKASTPNGYDNGIHWATWKTRWYS WMKKTMMKIIPFNRLTIGEGQQHHLGGA KQAGDV
6373	14424	A	7116	19	418	VEMGFCQADQAGLELLTSGDPPASVSQS TGITVLSLSFFETESRSVAQAGVQWRDL GSLQRPFGSRHSPASASRVAGTTGARR HAWLIFLYF/LVETGFHRVSQDGLDLLTS *SARLSLPKCWGYRREPSAR
6374	14425	C	7117	207	401	MGXXIFXPLXKTPFFPGVWGNFSPGP GXPPPPRGGPPPLFFPQKKGXPPPPFP KVLGLQA*
6375	14426	A	7118	2	681	FFEMESRSVAQAGVQWRDLGSLQAPPP GFTPFSCSLPRSWDYRRPTILLANFFVF LVETGFHCVSQDSLDTLLRSARLFFFF ETESRSVAQAGVQWRALGSLQAPPPGS RHSPASASQVAGTTGARHYARLIFVFLV ETGFHRFSRDGLDLLTS*SARLGLPKCW DYRREPPRPAVRVYFYNRSVFIEYVQFC KLLFTFKINVRSONILGSPNILKSLLKNLN
6376	14427	A	7119	3	265	FFFETESRSVAQAGVQWCHLGSLQPLPP GSSDSPASTSRVAGVTITAT*VAGTTVV RHHAWLIFVFLVETGFHHVQAGLEHL DLR
6377	14428	A	712	59	306	FGTDRTAVQTSSQRLCLPWVAQKTYW LLVPSSLLKDLKEKEVVEEA*NGRDAP ANGNAVSVCFAPFPWQLPHKIFPVLL
6378	14429	C	7120	359	583	
6379	14430	A	7121	279	566	FRRRFPLISLFFFLFFFCFFFETESRSVA QAGVQWRDLGSLQAPPPGFTPFALSPRL ECGAILAHCKLLPGSSHSPA\ANRVA GTTGTRHH
6380	14431	A	7122	237	523	PQEFKTSPGNVARPQLYNFFFFFETESR SVSQAGVQWCDLGSLQAPPG\SHHSPA SAS*VAGTTGAHHHARLL\FVFLVETGFH CVSODGLDLLT
6381	14432	A	7123	1023	1459	KGTRKRGQGIKVHLPILLNLICFCTFG LFLVFLFLFPFFFFFFEIESHVAQDGVQ WCNLGSLQTPPGSSDSPASAS*VAEITG TRHYAWLIFLFL/VEMRFHHVQAGLEL TSGDPPASASQSAGIRVMSHRLVFLYY K
6382	14433	A	7124	1794	4614	RFFSFFFFFETESHVAQAGVQWCNLGS LQAPPPGSRHSPASASRVAGTTGAHHH ARLIFVFLVETGFHRISQDGLDLLTS*SA RLGIPKCWDYRCEPHLASI
6383	14434	A	7125	2	441	FFFFFETESRSVAQAGVQWRALGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF VFLVETGFHRFSRDGLDLLTS*SARLGLP KCWDYRREPPRPAVRVYFYNRSVFIEYV QFCKLLFTFKINVRSONILGSPNILKSLLK NLN
6384	14435	A	7126	3	226	CETESRSVTQAGVQWSDLGSLQAPPPGS RHSPASASQVAGTTGAHHHARLIFVLLV ETGFHRVSQDGLDLLTS
6385	14436	A	7127	153	504	KHFFFFFFFETESRSVAQAGVQWRDLGS LQAPPPGSRHSPASASRVAGTTGTRHRA WLIF/VYFLVETVFHRVSQDGEL*KLYRE NSIENILVQKCLKVYFSHCSRSEITVTGN NLL



6386	14437	A	7128	3	313	FLFFETESCSVAQAGVQWHDLSLQAPP PVG SCHSPASASQVARTTGTRHHPRLIFF/ VFLVEMGFHHVSQDGLDLLTLGSGHLSL PKCWDYRCEPPHPSSPSY
6387	14438	A	7129	3	307	FFFFETESRSVAQAGVQWRDLGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF/ VVFLVETGFHRFSRDGLDLTS*SARLGL PKCWDYRREPPRPAYF
6388	14439	A	713	171	565	TLAFLIPCIGSPACPTMSDAAVDTSSUIT TKGLKRRRRKLWEEAENGRRPCLTGN AENEGKWSREADNEVHQKEE*CGEEQ EEEEEGDGEEEDGDEDETLSATVTRAT EDEDDDAVAPTKQTTRLDE
6389	14440	A	7130	2	91	
6390	14441	B	7131	3686	14131	MTNAFQYVQKNRGIDSEDAYPYVGQSY YNLVSSSQEESCMYNPTGKAACRGYR EIEGNEKALKRAVARVGPVSVAIDASL TSFQFYSGVYYDESCNSDNLNHAFLA VGYGIQKGNKHWHKNSQSAQTVLTPDE CLLGYLDKGLKRKDKAGSLQWAYM AIARLGGFMDSMPTGIAIWGALX*
6391	14442	A	7132	8044	8378	YIDVKTFFFFFLPETESHVAQAGVQWH DLSSLQPLPVGSSDSPASASRVAGITGTH HHAWFIFVFLVGTRFHHLGQAGLELLTS SDPPASAPQSAGITGVNHHTQPQKFI
6392	14443	A	7133	3	283	
6393	14444	A	7134	2	177	
6394	14445	A	7135	1	491	
6395	14446	A	7136	3	612	
6396	14447	A	7137	2	137	
6397	14448	A	7138	1	2631	
6398	14449	A	7139	2	112	
6399	14450	A	714	1	1497	
6400	14451	A	7140	67	245	AYNLSDGQYGLVDPEFEYYFWLCCWLP L*LGKCLWVLPVSVSGDRNDNDQAER NGSHL
6401	14452	A	7141	356	2252	RSFLDEEFPHYDSLSCADAIQPLQELK QCCHKLYGGQEARHQTPLTKHTCWY TPLLDALSLSFTA VPTLESTPFGVANQ IHTLCERPTYGEVKDGDALDVKRQHKCPG PTSGPSPGTNLSCIRMNDPSMEENG ERVCPESLLQSRGYSSLPLPRHTSSTDGTI TSSDPGLEILNMASCDLDRNSLCKKEED TRSASPTIEAQGTSPAHDNIAFDSTSKD KTILNLEAKEPETIEEHKKEHASGDSVV SPLPVTTVKSVNVRQSENTSANEKEVEA EFLRLSLGFKCDWFTLEKRVKLEERSRD WAEENLKKEITNSLKLLSLTPLCEDDN QAQEIIKKLEKSIKFLSQCAARVASRAEM LGAINQESRVSKAVEVMIQHVENLKRM YAKEHAELEELKQVLLQNERSFNPLEDD DDCQIKKRSASLNSKPSSLRRVTMALLF LPRNYLGNAGMVAGMENNDRFSSRSS SWRILGSKQSEHRPSLPRFISTYSWADAE EEKCELKTKDDSEPSGEETVERTRKPSLS EKKNNPSKWDVSSVYDTIASWATNLKS SIRKANKALWLSIAFIVLFAALMSFLTQ LFQKSVDAAPTQQEDSWTSLEHILWPFT RLRHNGPPPV
6402	14453	A	7142	1	835	
6403	14454	A	7143	1	3735	
6404	14455	A	7144	2	1161	

6405	14456	A	7145	126	572	NFSSNKWNTSQNFANMDNSAQKNERTG KHPRRASEVQKNDIPGPGFYNVIHQSPV SNSVSLSKKGTCMFPSMCARLDTIVSKY PAANAYTIPSDFISKRDFSNSCSCSMFQLPS FMKALKFET/PLAPNYNASVSCCKRRN NVCTRAGF
6406	14457	A	7146	1	1261	
6407	14458	A	7147	107	227	
6408	14459	A	7148	3	407	
6409	14460	A	7149	3	608	
6410	14461	A	715	32	3730	NSERRGLGMSLADELLADLEEAEEEEEG GSYGEEEEEPAIEDVQEETQLDLSGDSVK TIAKLWDSKMFAEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIEN ELNIIHKFIRDKYSKRFPPELESVPNALD YTRTVKVS AEKELGNSLDKVARAIEEPW QQILT NATIMVVS VITASTPQQQLSEE ELERLEEACDMALELNASKHRIYEVES RMSFIAPNLSIIIGASTAAKIMG
6411	14462	A	7150	2	212	
6412	14463	A	7151	3	91	
6413	14464	A	7152	1	115	
6414	14465	A	7153	1	1279	MGDTPRQFGGARPRSGGALRGCSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFP VGRPRHQGMVMGGMGQKDSYVGDEAQS KRGILTLKYPIEHGIVTNWDDMEKIWHH TFYNELRVAPEEHPVLLTEAPLNPKANR EKMTQIMFETFNTPAMYVAIQAVLSLYA SGRTTGIVMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILTERGYSF TTTAEREIVRDIKEKLCYVALDFEQEMA TAASSSSLEKSYELPDGQVITIGNE\RFRC PEALFQPSFLGMESCGVHETTFNSIMKIC DVIDRKDLY\ANTVLSGRTPPCTLGIADR MQKEITALAPSTMKIKIIPPERKYSVWI GGSILASLSTFQQM WISKQEYDE\SGPSV VHRKCF
6415	14466	A	7154	1	111	
6416	14467	A	7155	143	295	
6417	14468	A	7156	186	437	
6418	14469	A	7157	3	356	
6419	14470	A	7158	1	220	
6420	14471	C	7159	102	407	MDAGLEAMQKYGKAAPGDRTMLDSLW AAGQELQAWKSPGADLLQVLTKAVKSA EAAA EATKNMEAGAGRASYISSARLEQP DPGAXAAAAILRAILEVLQS*
6421	14472	A	716	3	117	HKRPLMASYLLFFCSFVRVE*TIITCLT** ECHRYNR
6422	14473	A	7160	1	2302	
6423	14474	A	7161	1	178	
6424	14475	A	7162	60	413	

6425	14476	A	7163	2	1420	NSGVGAGARRAARCRAEAAAAGVTARS PALGMALLVLGLVSCTFFLAVNGLYSS DDVIELTPSNFNREVIQSDSLWLVEFYAP WCGHCQRLTPEWKKAATALKDVVKVG AVDADKHSLGGQYGVQGFPTIKIFGSN KNRPEDYQGGRTGEAIVDAALSALRQLV KDRLGGRSGGYSSGKQGRSDSSSKKDV ELTDDSFDDKNVLDSEVWMVEFYAPWC GHCKNLEPEWAAAASEVKEQTKGKVKL AAVDATVNQVLASRYGIRGFPTIKIFQK GESPDYDGGRTSRDIVSRALDLFSDNA PPPELLEIINEDIAKRTCEEHQLCVVAVLP HILDTGAAGRNSYLEVLLKLADKYKKK MWGWLWTEAGAQSELETALGIGGFGYP AMAAINARKMKFALLKGSFSEQGINEFL RELSFGRGSTAPVGGGGFPATTVEREPWD GRDGELPVEDDIDLSDVELDDLKDEL
6426	14477	A	7164	547	980	
6427	14478	A	7165	3	1290	LYSSDDVIELTPSNFNREVIQSDSLWL VEFYAPWCGHCQRLTPEWKKAATALKDV VKVGAVDADKHSLGGQYGVQGFPTIK IFGSNKNRPEDYQGGRTGEAIVDAALSA LRQLVKDRLGGRSGGYSSGKQGRSDSS KKDVIELTDDSFDDKNVLDSEVWMVEF YAPWCGHCKNLEPEWAAAASEVKEQTK GRVKLA AAVDATVNQVLASRYGIRGFPT IKIFQKGESPDYDGGRTSRDIVSRALDL FSDNAPPELLEIINEDIAKRTCEEHQLCV VAVLPHILDTGAAGRNSYLEVLLKLAD KYKKKMVGWLWTEAGAQSELETALG IGGFGYPAMAAINARKMKFALLKGSF EQGINEFLREL SFGGGSNGTL*GGGGS LPIVEREPWDGQCGRFPWGDDH*PSV DAELDDLKDEL
6428	14479	A	7166	335	519	ILFPGSGQLRSSDQKAAKLALL*FQKRS EMYKTK*FWGRKMSQFFSVVRHTNPG SRLWA
6429	14480	A	7167	2	386	
6430	14481	A	7168	311	493	
6431	14482	A	7169	2	82	
6432	14483	A	717	1007	1118	APGPCPNQTLARDSGWVG*KNHQLCTC VCVCVCVCVC
6433	14484	A	7170	51	347	
6434	14485	B	7171	188	353	XDVVVPVANCQVQEYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6435	14486	B	7172	188	353	XDVVVPVANCQVQEYNSNPKEHMTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6436	14487	A	7173	753	1216	QVVEVGPPRGRHPSAAGCPSPA*RRWKT RRAGWAARSPAQSRRRRRRPPRRRLP GPEPGRRRGHRPPGLGSGCRRGRASRG SSARVEGPSSSLPPERKR*GPASEPEDA GRRVSAPPAPGARACTHARGSPRSSLR RRAAEAARSALGLV
6437	14488	A	7176	27	285	VFFFFFFLRRSLALLPRLECSGTIVFLVE TGFTMLARMVISIS*PRDLPALASQSAGIT GVSHRARPASFNLTINILPPLLWTF
6438	14489	A	7177	12	336	SPVQL*F*LFLVFC*LWSWSAVVYLGPL GTPSADAHT/AGLSKTPPHWAARARLDD VFSLRTFSSHSLNMELVQDLTASAPMYS STSRDPP/CLGLPKCDYKREPPRAH
6439	14490	A	7178	74	463	HISQHDSYLVLLASYKTASFLFFFLRQ SL/DSVTQAGVQWRDLGSLQAPPPGFTPF SCPQSPK*L/SSWDYRRPPRPANFFCIFV EKECFTLLARMVISISWPRDLPASASQSA GITGMSHRARPAQVS

6440	14491	A	7179	1	412	TRMGLPDASRRTRCRMDPEGWQEAMSS A*GRITLQRLSTGPEGQGGREKVGPEGG SENPOQPKAAGVLSKHLPGAPAPPPQRP PSSPPPLAGPLTERVEKVCDFLDAAGDY LN/GTPG*PSPGESPAADPPVPPWPP
6441	14492	A	718	1692	2123	SQPRFSWTQERLRLFPGLLNSLIVSQAT QGPKLSCLGSCLMAFTFKKMEPSPMSCS PQCFGKPMMGRLSGGQKFKNQAGQYH KTPSLRKSCKLASHGGVHLWS*LLRRLR QEDCLILGIRGCSEL*LHLCTPPSATQRDP LS
6442	14493	A	7180	117	295	
6443	14494	A	7181	279	1065	IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNSQ QIEESTTVVTTQSTEVGAAMLTTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAE GCQAQYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTR\
6444	14495	A	7182	60	846	R*TRQIVDGKVVS IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNSQ QIEESTTVVTTQSTEVGAAMLTTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAE GCQAQYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTR\
6445	14496	A	7183	645	861	R*TRQIVDGKVVS KYYRKRGIHSAIDASQTPDVVFASILA S*ATCKDLVMFI*CWVQEGISFHPCEAM GGNDRTGKEKLPSG
6446	14497	A	7184	2	1327	RPQSLSPVLSLSPDSMSFTTRSTFSTNYRS LGSVQAPSYGARPVSSAASVYAGAGGS GSRISVSRSTSFRGGMGSGGLATGIAGGL AGMGGIQNEKETMQSLNDRLASYLDRV RSLETENRRLESKIREHLEKKGPQVRDW SHYFKIIEDLRAQIFANTVDNARIVLQIDN ARLAADDFRVKYETELAMRQSVENDIH GLRKVIDDTNITRLQLETEIEALKEELLF MKKNHEEEVKGLQAQIASSGLTVEVDA PKSQDLAKIMADIRAQYDELARKNREEL DKYWSQIEESTTVVTTQSAEVGAETT LTELRRTVQSLEADLDSMRNLKASLEN SLAREVEA/RRTPLOMEQLNGILLHLESE LAQTRAEGQRQAQYEALALNIKVKLE AEIATYRRLLEDGEDFNFGDALDSSNSM QTIQKTTPPG*VGLGKVVS
6447	14498	A	7185	2	345	FFFFFETESRSVAQAGVQWRDLSSLQA PPPGSRHSLASAS*VAGTTGVCHHARLI FVFLVETGFHHVSQDGLNLLTS*SAGLG LPKCWDSEKLFFFFGDKSFRFCCPGWST MV
6448	14499	A	7186	178	388	RREPLHPANLLLFFFFFFEMESPSVAQAG VQWRDLSSLQAPPPAGSCHSPTSLS*VAG RLRNKNCLNPDAW
6449	14500	A	7187	546	850	FSVLFFFESESCSVLQAGVQWRDLGSL QPPPPGSSHSPTSAS*VAGTTGTCHHTQL IFIFLVETGFHHIGQASLKLLTS*FAHLGL PKFWDYRCEPPHPA
6450	14501	A	7188	4	410	PIERPHELKHRPHVQKLVEDVGDVIP AALEEGQAGWSHGFLVFLVEIKSAEGP/P GPADSRVRGVRPQRSQSAGPA*RAGRQ DGVCRSLGQGRGGGRATSLVLHPPGY GCWFSVGVPSLPQYTGIRSSSPRTRG

6451	14502	A	7189	148	268	LQPR*PLTCA PPCPVQTQTHPISVSQTLL GLEFCCSLSL
6452	14503	A	719	1	371	HRHCHPSHTVDGRMESIDVATDGG*RTG VLAVSGLSVSLRTAELSTRKLLMNSEQRI NRIMGFHLRGSGAVE*RHTQSMQHDSD KLNSLIIPSVSKRVVLVDSVCTGTTDHQG GVLERKVTTL
6453	14504	A	7190	397	1449	RSHPSTGRRTSRLESWFLGVSCCKSKV REGPLGPA**AG*RGVRPQRSQSAGPA*R AGKRQDGG/SPEPRAGVGGEVGTQSP/GP SGASGYPGMLVSKPVGGTSASWLPAGC PIPS*LS*QRSQSPSSCLIGHLLALWAAF GLGVTSLPQYTGIRSSSPTA*ATVQDGS HKGGTGGTGLGRGRNTQPDAAACGRGHR SSPTR/RPHGNPNNGTGCAEGGQARSLLP KLAPKLPGWVPVAVGPGDFGWRO AQYQSSLWDLSSPRNTLGRSATSAGPAP PALLGAGSGRSSGTSPAAPGCSSRCHCW ASAPAGVSGGPG/GRGAEAPPSPTLAQR GSPPGAAIFPPACGIPP
6454	14505	A	7191	47	1654	LHVPARPPGCGGAFLAGPCPGWGQPR AQLWPQ/SAAPGPPHPALPSPVFTWP RLLSH*S/RPA/VEQCPPEHVYPDPASS WVPKSASPPRVACPCPPAL*/PFGDSCS LCTAGLRGPGHDTLPQVWVRPHPGAS AEM*AHKPPPLAQKPPRPSISVPQPSAQL WYPAGPWVPT*AGTWLGYGAI*SPQGLF SFYEMEHGVPASLNPPKWEPHDRV*LGG GR*GKSEVPRGTPSLTGLFRGVPPQGPPI TGTQKHPPNDMVSFLISFFCLFCGFQ G*/PPGL*SIHIEPLTGLPGCQG*A*P*VLL STAGSAHAV**GSELVHLQS*LHFPSFCP PPVLALDLQVCRPALSAFLACGPPAIPGS WSPEGPVSLWMGVRGVVPLCGLSLYPAL L*NLARRGPGQFTGK/IGEGTPTPHKPC NHQVRKLGVLPPQGGVKTIEVGFWGPT R/PKAGETR*VGRVPQSLA*PQCVSP LP*LSGTPGRSWG/PVLSPTPAHSQALRL CGHSPPCWSLVIGLELYFDAMKTLFISNV YIF
6455	14506	A	7192	4	496	NRRTERLGRWCPCTGAWPAPVNLAKLA PS/HDSEQVSGCVPLAQSMAPPGPAWR AGHHRRRSENPRPGFFGSFFKRFGTNR GWSRRDDDPGGPGSGSRWPPAPRRGGQ WRCPREPG*RRSSAGRGSSPCALRHRA TKASSSCSSPCPTPTKRERALAAASC
6456	14507	A	7193	3	514	SVPKREELQGHHRVRGGEHRVWTRQDV LQHRLPATSVWTHPVLPTARAPALGRA SGAARRTAARAAPLAPVPAAPAAAPGRA RPTTTWPASPPSPRSASPTAPSSACWSP TP/GSPFALRPLRAGLGAVYTRSAHPRR PLPAHLCLVRHRATKASSSCSSPCPTPT KR
6457	14508	A	7194	2	324	GGGFRPLFPPLWRPKPVGPVRVEIFGPAC PPWENPFSKIPNLPGVVGPSDYSRFS SEG LARKLPLTRKGRFR*PKFPPLPSFLGKKR EIRFPKTKKKKIFINSSSSC
6458	14509	A	7195	3	344	ERQKLHYKYSKQFLTLDQDWNNTNWKAE EPEEQKLATMFREQQKSL*ARMVQRQ RH*NKLN*NQQFLRSLEDLEENQSSFTD EQSDLRKEMARLQTKLMKETLQDQDLALI HSC
6459	14510	C	7196	68	319	

6460	14511	A	7197	56	945	HRKLDNRYSRHMGCSPGPEPRRAEPC PPRCMPTKETGAFRSHTRSRLGPF*SLAE PPF/PRVPVSRGPLSASSPPPLSSRDAGLQ TSQLLP/SWGWSVPNSIPELDLGPLSPTGR LSAAFPCRSPPSTGNKDATSQVDSHPH PSFRSPGLELSRCPGDPVTATSPHEWTQQ GKDWRPCSCPLVMQAPPTSHIFLPPPSRS SLRRPRAPSGCPWGCLG/RPPAGPWATP LAGLPSWS\GVRLPG*GVLPASRGSG*G PPRHRPDAGSERPAAAAAGFAGP*VCSN SSALPSVYEGLL
6461	14512	C	7198	161	262	MLKGIPCLHPPLASSSQSDNSQKCLQTLPLPR*
6462	14513	A	7199	132	1007	NPQAPQATKKEGRKNARKGGSVCSGVP WGPPPRKVPTVPWRAESPGGESHAGFE SLRHGHAGAGPKGMPRRLPTENTVSAE GSTGGESGARVPDTGKGL*PATHPLPWG SLSGF*ETQRL*G/PCLEGG/YPGEAGQSL ETFLAVV*LGAAG*GWVEARDTFKHPTV CRTAPTKEDESPPETQQSGAGIGEAAVWC QPHIGRRALQEACGEHGDGRFGGNHA E/PDRGGNEAAPTNNNPHTPDGHTSL*G/ VTGPSP/PGRWGN*GPESSEPLDGPPIH PPTSWCGLFLRSFRLHS
6463	14514	A	72	218	428	LSSLPTTISR VFYNLS/CSHL*YSLKHFFIY LFIYLFYLFYLFIFETESPLSPRECRSGI SAHCNRL
6464	14515	A	720	3	408	DAWANARSVRLEVA GLRRDL*R/CSER WPLARATPFCFGSAMPYQEE SNLSLQ ALESRQDDILKRL YELKAAVDGLSKMIQ TPDADLDVTNIIQADEPTLTITNALDLNS VLGKDYGALKDIVINANPGFPPLF
6465	14516	A	7200	59	326	TGLSPGSEIGALPGNLV*APFFFNPKNLP GAVGPVGPVPFWGG*ARGLGGPRSSEFP LVGLGPLAFRLGTLGPVFKKNQESKKK TSV
6466	14517	A	7201	3	263	TLRKKFFQPGKTTFRSPHTPVSSFFPQKK EKL*GGNPPKFPKPKKPPKPKP/HPSSS PPPKSSSSQSHAPPKGPPPEPLKKNPP
6467	14518	A	7202	1	348	RYRSGIPGRRTRAGETPSLLKIQPG/GD GARS*SRLRLRLQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKKKKKEFKIPIY FLTLLWDVFR TQYYSIPMCLLCGEMVT DI
6468	14519	A	7203	3	441	SSGSRSECRFLPLLFNVVLEILAGAIRQ/Q KE/IKGIHIGKVKSILTEVINKFIKVA*Y KIN/SNKSVC LYTNNEQLEKFKISSSS SSSSSSSSPNH*GKDLYNENLKTLLKEM KENKWINIPCSWIRRLNNVNISILSKVTY KF
6469	14520	A	7204	3	310	TINCVDITDIYRLHPSTADCTFCPSSNGI FTNIGHILGKTHINKFISIEFI*CLLSDHRI KLEINNKTWKIPKYL*INTLIKEKCEEQF *NTVN*NPNTI
6470	14521	A	7205	3	88	
6471	14522	A	7206	2	1053	TMPSSVSWGILLLAGLCLLPVPSLAEDP QGDAQKTDTSHHDDHPTFNKITPNLA EFAFSLYRQLAHQSNSTNIFFSPVSIATF AMLSLGTKADTHDEILEGLNFNLTEIPEA QIHEGFQELLRTLNQPDSQLQLTTGNGLF LSEGLKLVDFLEDVKLYHSEAFVNF GDTEEAKKQINDYLEKGTQGKIVDLVK ELDRDTVFALVNYIFFKGKWERPFVK DTEEDFHVDQATTVKVPYELKRLGM FNIQHLAKKLASSWGAA**KYLGNATRH LLSCLDGGGNLQHLGKIELHPTIIHSPSFL GEIEGQ/DRSCPALHFTQIVPLLGTYGFLK SVLGFNWGIH

6472	14523	A	7207	2	334	RDPPGPGPATTARERKCAKHPSLHQITV THLKL*VVLAQLTLEEPHCHANPD LIFE DMEAMTDLELHELCCQDRHINNFQ LDM DLILDGSKFQVVGICLSELKQKDSSN
6473	14524	A	7208	1	306	LRRS/LCSVAQAGVQWWDLSSLQPLPPG PMPFRLSLPSSWDHRRPRPLPANFLYF* *RRGFTVLARMVISIS*PCDPPASASQSAG ITGVRHRTQPPRYVFM
6474	14525	A	7209	156	331	QPLILRCLPPRSIYRFNSIPIKIQVTFF*EK EKSLLKFIQNLKGP*ITKTILRKKKVD
6475	14526	A	721	25	494	PLTVSERWPLARATPFCFGSAMP MYQV KPYHGGGAPLRVELPTCMYRLPNVHGR SYGPAPGAGHVQEE SNLSLQALES RQD DILKRLYELKAAVDGLSRRIKPPRATLD\ ETNIIQADEPTTLTTNALDLSVLGKDYG ALKDIVINANPGSPPLS
6476	14527	A	7210	50	269	FRNIKHQRDYNEQ*YG/NKLDNPEDMKN F*ETRYT*/PNLHQEEIGMLNRPVTNKVL *LVIKIPLTKKSPEPDGFV
6477	14528	A	7211	584	1001	ILKLWGVGTG*TKVPPQVPPTPHSRA*GP PRRECLRRQ*PRP*SPGFGPLSFPTSVELM GVKTVLSQGASRERGSWG*KGSPLNGR QFWAQGGA/LSWVAWGGGGGWRGSNG KG*QPGEQGSSLQPLIPPPRTWRMG PQG
6478	14529	A	7212	79	315	ERDFLFVPRVGFQGP NLG*LKFPLPGLPL FSGLTLP/RNWGLRGPFTTPG*FLDFLKK RGFNIVAQVGLKFWTSGDPPPL
6479	14530	A	7213	247	827	KYLEIVLLLKY*RNSESCVFILKCSFSLIL LELTMMKKILCLIIY*LLTVQTVTQWIFV CPPKTF*S*AIFNKDV*ILILIVVKKLLV WVQYILSFLILLKLN*DVCFVLLH*VLF KNSLCVYELILDFLYSMIKDN*KFCTN FLGPWKVF*YFLRMSIYFVHNKLALYMK MGLNQIKKVMLLSKKK
6480	14531	A	7214	1	311	LNREKLKAPLTSGT*QE/CPLSPLLFNVV REVLATAIRQEKEIRGIQIGKEEVTLSLFV DDMILYLKKPKDCTKKPLEL/NTFSKVA* YIINIQISVAFLNAKSK
6481	14532	A	7215	6	375	ESLRSPSRFS*PSPAYRGHGCSRPA TH NGDPCRAEALSDTPVPQSSGSGDHNEKG PSRSPFQLH*PGPWGPAGCRGRPA TPW RLVAGPLRDSQEDPPSPEEPGSGGAAGQ GGG*GLSCFP
6482	14533	A	7216	80	251	GKFHISKTL**NINILL/VQLSVVAIGINIY RTSNVEVLLQFLEDQNTFPNFEHLAYR
6483	14534	A	7217	161	333	GKFHISKTL**NINILL/VQLSVVAIDINIY RTSNVEVLLQFLEDQNTFPNFEHLAYW
6484	14535	A	7218	3	299	PPFRTHQARRFAPTQDWOIGFTQH/RP/G VRKQKYL LV*VDTFTG*VKAFPTRSDKA TAVITSLSDIIPRIGLPTCIQSSSTLALISQ ISHPSCQAATIQ
6485	14536	A	7219	526	1108	TQTKNSKIYFN*LLF*ETGPHSLSPQAGV WWHSHISLQPQPPGLKVHPHPSLLSSWD YRHTSLRPANF*KIFVETGSLHVAQDGL FLGSSSPVSASQSARIAGMSLGARARPC LK
6486	14537	A	722	358	445	NSFGRTIFFFY*FFFFFFFFFTIQTFKGGPL SPFFLLFFINPFRFFFFF*TPFLRALAFF KPFFFFKIVLAEPYFFFTNPQILMRGGGG FSGRGS
6487	14538	A	7220	181	272	IQSWFNILKSIHVIHHSNRLK/NVNHIVSS SSSSSSSSSPFLIKKQ*KG
6488	14539	A	7221	2	334	YDEEWRRSTVHPDEVGNLK*EDR*ALQ NRLRVFLSLMDTGWLDNLLLDIDKADVI VKMLDA*SVIKMEGGTDNDLNILDQDVE DEHA*KPGEPSKNEGRAVSGLGDGERK

6489	14540	A	7222	1	323	VVSYLLVFSSSK*KKIYQDCIGFVQDC LNNDPIDSLRGKNVHSLDTEKVVGKIQ* PFMTKIFSKLGIEGNFLKWLYQQSSTVS LLNV*ILKAFLSRTE*GCM
6490	14541	A	7223	2	690	ATYIVDFGFQYNIREQMLTAFCGMYP YVAPERSLGQACQ*PARDIQSLSVILYFR NTVGRRARTLPFYS/AEASKLQEKILTGR YHAPPLFALQLDSL/IKLLMLNARKGPSL *LMKNPWVKRIQKMPLIPYEEPL/RGPPQ TIQLMVAMGFQAKNISVAIERKFNYPM ATYLIL*HTKQERKCSTIRELSLPPGVATS PSPSTELSTFPLSLMRAHREPAFNVQPPE ESQ
6491	14542	A	7224	2	338	SSSYTPEYWQ*RSRSHSPMSNQRRTGR RANPDNTCLRVFGLSLYTDRDLREVC S*YGPLNGANVVYNQQTGRSQGFAFVH F*GIDDSKEAMVRANRKELDLRRVRVD YS
6492	14543	A	7225	604	841	RPGGQFCLMEASPSGFNPFFLLNLPREW ELRVPPPTRGNFF*FLKKNQFI/EVNPGGF DFLN/SNDPPAFASKGVGLTALTP
6493	14544	A	7226	3	343	HEPNGFYAEIECERCNSPELDEEGYSIIPD EPGSTNGKHFYSSSESEY*E*SHKIYIQUIK PSLSTDILNNAAPVDELKASIGNIALSP*P EKAIRNLSREEVARPRRFTSP
6494	14545	A	7227	3	304	HEEKNEKIRNVGLCEAIVQFTR*YL*VCL *RSVNS*NCCWRIVPNIFF*PL*TFSPSKP AKSLHTQKNRQFFNEPEENFWMVMVFT YTVYLSEIVWVELW
6495	14546	A	7228	1	167	SARGPDGFTAIFYQTFKEELVQILLKQFQ RIKGEASSLKS*ETSITLIPKTRKGT
6496	14547	A	7229	2	334	ARDRAALETVIRRARPELRRPGVQGIPR VHELKIEEYVQRLQVRGLDPQLPLNLA ALYAHVA*EKRVVSILSRITILIVL\VESLI LLIIVLTGYQLSILCTCSVGNIF
6497	14548	A	723	452	764	LLFSKCRAVEKNLSKEDPHMETIKVAFV MTSGERDTGLTEPMAG*RG*GS**DGP ARGHETSLGHRGVSGDGGSMGPSLTAN ALPSISRPFPSVTDSGSAPL
6498	14549	A	7230	1	792	FFYREVKPSLFDCKILITEIPKES/NRVL QITRELSKMLAYKVSMKLSILFILTREYK KVKMPFNIVY/NNTKYSRINLMKDIYDL YTAIYPSTAALKYRYMCNLQNIARRN*R PPLNKWW/REE*YSWIEGLVKILVFPKQ IYRFNASPNKKSPLFNKLIPKFP*KYKG RRISQTNLGR/TLQDLKIYYKTTLK\NIV WYWYEVQRLLPPAPQSAPIPTCWQLS PSDLQGLKGAEEGLTDWGGKQSGTEITS GHLPLSTFG
6499	14550	A	7231	1	2541	
6500	14551	A	7232	560	901	GNPATPSHCSLPQPTPQEGAA/YNPDDF FF*KQP*QPKQVSSQPPWPLSTSLPPACP SCSRAPAVPAPIQAPSAILPLPGQSVR LCVDPRHRQGPVNLLSDPEQGVEVTG
6501	14552	A	7233	13	2931	EEGRQQSPAADVKTGLRAPLAASAWPH RCCVRLLARITMKPPRPVRTCSKVLVL LSLLAIHQTTAEKNGIDIYSLTVDSRVSS RFAHTVVTSRVVNRANTVQEATFQOMEL PKKAFITNFSMIIDGMTYPGIIKEKAEAQ AQYSAAVAKGKSAGLVKATGRNMEQF QVSVSVAPNAKITFELVYEELLKRRRLGV YELLKVRPQQLVKHLQMDIHIFEPQGIS FLETSTFMTNQLVDALTTWQNKTKAHI RFK



6502	14553	A	7234	3	338	DAWVSVLCCNLSEAKRRINSLSYNQCN IRRLPSF/RDVWNGENSRVYEQASEQQ VELLTNERYLMEESQLLLQYLHVYHMN YFLDLTCRPTFYCYLTEAPIG*PMCKGYL S
6503	14554	A	7235	147	380	ASCRFDFFCLLCYRVLFSLNLTVCFAIR YFNIYMSFCFTFFLYFWWL/FCYDFLL/D YVF*TLILVLVCFPPVSFVMFLI
6504	14555	A	7236	1	257	PTRPDFFAQQHLTPDKIYHVTVMPCYD KKLEASRPDDFNQEHQTRDVCVLTGGE VFRLLLEEGVSLPDLEPAPLDSLCSGAYA *EPTSHR\GGGSGGYLDHVFRHASLQFLD S/DVV*VSSIHLR**DFFAQQHLTPDKIY HVTVMPCYDKKLEASRPDDFNQEHQTR DVCVLTGGEVFRLLLEEGVSLPDLEPAP LDSLCSGAYA
6505	14556	A	7237	2	502	PVWWNLQRRTSAGPGTAVPGLAVA*FR QTGLTRSPSSGRDGAGVRDLWNPPPPVP IPLPLGFHLRGPDSLAEQPSACLPGS/PP CRNGLGQPQQHGLWPG*IGIQFRLGFH GNQGPFGPSNLPYPFLFAAPLHTRHVP /LHCCPLTWAALPTPLCLWRCSAIQD
6506	14557	A	7238	1	828	
6507	14558	A	7239	2	775	NISREMLQQSKILKVRKNLVKKCLELFT ELAEDKENYKKFYEQFSKNIKVGVNNH* FSNWPL*FFFFFFNSESLCKEHTLFQLGIH EDSQNRKKLSELLRYYTSASGDEMVSLE DYCTRMKENQKHIIYITGKRTLCSYHT RRSYNLVGSVGVFSTQVALLQLVLI*AR* LT*TRSFVLSA*VSG*QEKSEDETILN C*KV*K*LCNTSGETKDQVANSAFVERL RKHGLEVIYMIPIEDCAQQLEEF*GK
6508	14559	A	724	209	384	KYETIRYRDSVKGRFTIF*HLTKNCLHLR AIGLGADDSHFYSCANDVADSGTTLFFD S
6509	14560	A	7240	1	2303	QLLQRPVAVPLVLCGHLAKMPEETQT QDQPMEEEEVETFAQAEIAQLMSLIINT FYSNKEIFLRELISNSSDALDKIRYETLTD PSKLDGKELHINLIPNKQDRTLITVDGTI GMTKADLINNLGTIAKSGTKAFMEALQA GADISMIGQFGVGFYSAYLVAEKVTVIT KHNDDEQYAWESSAGGSFTVRTDTGEP MGRGTKVILHLKEDQTEYLEERRIKEIVK KHSQFIGYPITLFVEKERDKEVSDDEAEE KEDKEEKEKEKEKESEDKPEIEDVGSDEE EEKKDGDGKKKKKKIKEKYIDQEELNKT PIWTRNPDDITNEEYGEFYKSLTNDWED HLAVKHFSVEGQLEFRALLFVPRRAPFD LFENRKKKNIKLYVRRVFIMDNCEELIP EYLNFIIRGVVDSDELPLNISREMLQQK/S KILKVRKNLVKKCLELFTELAEDPANY QK\FYE\QFSKNLKALEYHEDS\QNRKEA FPELLRYYTSAISDEMDTLKD\YCTRM KENQKHIIYITGETKIDQVANSSLCGT FRKHGLAEVIYMIPIDEYCVQQLKEFEG KTLVSVTKEGL\ELPEDVEEKKKQEEKK TKFENLCKIMKDIK\EEKVEKVVSNNR/L VTSPCCIVTSTY\GWTANMERIHGKLQ ALKETTSTMGFTWQPKKHLEINPDHSIE TLRQKAEADKNDKSVEGILVILLYETAL LSSGFSLEDPQTHANRIYRMIKLGLGIDE DDPTADDTSAAVTEEMPPLGDDDTSR MEEVD
6510	14561	A	7241	158	405	RMNLSDGMDDIISQESSLDMEGNYKK AQKNEREAIRLILAL*SFDDGSRIVIS/CE QSGKQIFSPH**GINFQIGLSSTWSP

6511	14562	A	7242	3	442	TLLMFNNNVSLTLTFCMFLEFSLPCTED VPTCGDSCDKVLECGIHRCSQRCHRGPC T*VIYFHAVFQAGPECLHCEEGCSKSRPL GCLHPCILRCHPGECPPCVQMLGTAESA VLPQACHCPQFCLQSPFFLTHKEPQSSW SSG
6512	14563	A	7243	2	322	SGWSLTEQDPYNNIVRTAIEAMAAVFGG TQSLHTNSFDEALGLSVTKSSLIPFSLHF LFS*QFSLSYISIFLFIFFYFYLSLLIHFFY IFYLISIFLFFFLFIY
6513	14564	A	7244	1	361	RELLAFWQNFKLRPQGPFPS/PGGGEKK R*SLPKTPPKGGPPGP/SPNGRLPSGGQLP PPRGG/SPQSSSLPKGPQGWGPPFP*RSP PCPPHRIGVPQVSSSPTPLVFPRLNPG NLGG
6514	14565	A	7245	115	313	LVRSLTSLPHSPNPNTLSLPS*LPPYGPVY LSHYPPSPITSLTHPPSPSPPTSLPPPSP TPTS
6515	14566	A	7246	2	326	NEGECRKDVEMEPVLQAEKTNFQNHKG HEFIPTLWHFPANCDACAKPLWHVIKPP PALECRCHVKCHRDHLDYTDLLIFPCN IRYDVSSTLRY*LLHFSDEITII
6516	14567	A	7247	1	364	EHTRAEDHMLEEREER*RAERAQREE*L PEYQERMKT*EADRNIRPRELEIEERER RTEERILGDSSLSRKDSRWGDRDSEGA WRTGPEAHSEWTIGSPQMEWRP*EWLY DDRSYTG
6517	14568	A	7248	86	512	RGRVEAAPGYGSHLCHNFPCTYQKF GQPPGLQRTAASYSSDTMLGKAETHPT FAFFPAQGPCKESWQSRDTSARSETLGT ACSYNTGNNWAGAAAHGDTEDLQWLQ RKRE/RSEKTRTDLKGVRTSNGTARDD NCAYSP
6518	14569	A	7249	2	703	PDCPSRPT/YARGTSPGNKTENAHKGPKS VSSAPKMR*SLQDTG/REDTREPVRFTD TGTEQTVIFAD*KIAGRCKT*GQFPRQR PPHGGGSTPQLFSAAGTSFARFPAVKV HGFKTSPTGRGGGHWANTR/SFSWLATK KRESERKTRTDLKGVRTSNGTARDDNC AYSPHRRERGAPPAHGLYRRSVCARKN HIVLSKTGGRSVRRHDHRRSRSWRLRPG VSHHMRRSQ
6519	14570	A	725	68	362	SLPTIRECIYIHVVHAGDHIGNACWELYC L*HGIHPDGHMPRDLTIGGGEDSFNTFFT ETGASEPVPRAAFADLEPTVIDEVTVTY GQYLQL*QLIK
6520	14571	A	7250	148	357	LGIDLTKKVKKLSKKNYKTLMKKIEDDS N*KDNSCL*IR/MTILPKAIYRFNTISVNIP MRFLPDADAW
6521	14572	A	7251	1	389	RGAQAIIVF/NLNDVASLEHPSKWLADA LKENDLPSVLLFLTRAQYALMEKDALQ VAQEMKAEYWAVSSLGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCCP
6522	14573	A	7252	1	144	
6523	14574	A	7253	174	809	DQRGGNWAYECQWEGPCRLTHPLLSTS HGRQWLADALKENDPSSVLLFLVGSKK DLSVSVPVGGLPSLVRECPPLTAFPTP AQYALMEKDALQVAQEMKAEYWAVSS LTG/EVGGFRALL*HSCALLSLLHLQLC PVSPDPALPLSTYLLSVGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCC
6524	14575	A	7254	1	524	MERFEVLGIPFSLQLWDTAGQERFKCIAS TYRGAQAIIVFNLNDVASLEHTKQGV AECLKEE*PSRVVLFLLGFKKDLSTPAQ YALMEKDAFPGPRRLKAEYWAVSSLT GENVREFFFRVAALTFEANVLAELEKIG

						GLDVIGMFVRINSDDS\NLYLTASKEEAP HVCP
6525	14576	A	7255	1	258	
6526	14577	A	7256	2	562	RCFARYRPVHADPLYCQGHAAVPGYST VSRTHAPGG/VQLPPPPYTA/GRGAQVG RGCSPARSGAWPHRSGAVDHPLTQGDH TAPDHSSGLNDHSHHGAGARHLPPQ HAAWPP*DLNPCRTQPS*PSHSRPGSPL APVAPPWALGWNQYFPKSDSLLLLAK LYLIQWVFPCTVDFPNVINFIK
6527	14578	C	7257	30	323	MRLQLPSTSHLPVKRGXKEGEAVVLPEV EPGLTAREQEATPRPRETTQLPTTHQALG WNQYFPKSDSLLLLAKLYLIQWVFPCT VDFPNVINFIK*
6528	14579	B	7258	249	374	RLRWPLREVGQSVDQRCTTKPREVSGI RYCDFLPGVYDCT*
6529	14580	B	7259	77	867	XAGALQDITLSQQTSTWKTQLLTAIPT SPEPTGLEATAASTSTLPAGEGPKGEAV VLPEVEPGLTAREQEATPRPRETTQLPTT HQASTTTATTAEQATSHPHRDMQPGH HETSTPAGPSQADLHTPHTEDGGPSATE RAAEDGASSQLPAAEGSGEQDFTFETSG ENTAVVAVEPDRRNQSPVDQGATGASQ GLLDRKEVLGGVIAAGGLVGLIFAVCLVG FMLYRMKKKDEGSYSLEEPKQANGGAY QKPTKQEEFYA*
6530	14581	A	726	1	1254	
6531	14582	A	7260	93	1049	TSGSHSGITQFLPCFSGAQPTGQSPV*KRP SPGPQHRAARCTHFPEGSPFFGSSCSRPR NRAWVSAWWAGS*RPAQWSQELTQTP KQAGGQWRGPAPSRTPMPRRLEPPQHP KEQERHGVALEQSR/PRTLPPALGHCTCV* DQPSAFPVPAQPWGNPSMGSA/HERSWV CHVL*LSSHPLIQRRGSPCPPVGLGISP SPCPGGQPRQPDASSLLGA*ASGFSGTPK FKGPGTHHGPCQPLPSPAGLGSGLGEDL EAVGRTQPSNA/PLAPGQ*ATGGSALQPP VHTASNAPGPVSPDAPPPLPDQAQRLQD QAKAKPCPR
6532	14583	A	7261	2	643	PRVRLNGIVDR*VLGCLPCYDLGIFTDRD LGVHADAHDLVENLAKDLIA**IPFLAEGI RIHGDKVTVALRPFHERMEACFKQLKE MVENEYGVIMPSSLD*RGIRPRSMVR AFTMPSSSRPLSVASVSSLDSTPSRPGS DGFALEPLLKKMLSRSHDKLYKDDLDT DKKDYMTYNWTCRQFQISRDKMKRTD VSLYIMLVSPNPNSY
6533	14584	A	7262	59	339	
6534	14585	A	7263	2	519	ILFLFLFYFISFLRWSFTFVAQAGVQW*D LDSLQSPPPRFK*LACLSLLSSWDYRHMP PRPANFLYF**RWGFTMLARVLDS*PQ/ CDPPASASQSVGITGMSHAGPTMKLLN PQSEVIFSPRNSHSTLLTPLSRHLPHPISIS TWCIIHYAPLHTVSISAEAPWLFACPOS
6535	14586	A	7265	3	317	EESFTAHLRHRGVQFPFCGQCDKAYG TQRDLKEHQVHSGARPFACDQCCKAF ARRPSRLHRMTHQ\GQLPMLAHALCG AAPGSQGFLWNHMLRHT*KKPFL
6536	14587	A	7266	285	672	PLCTREKSEYMCTSYSLARSRVGQTLCK GVQWRHLSSL*PPPGFKQF/SCLSLPSR WDYRCPPPHLANFFYF*QRQGFTILARL ALNS*PRDPPASASQIAGITGVSHRDLII NFLDFEGYT*SATDS

6537	14588	A	7267	3	231	QIEQLHRRF*AA*/RGDQPTIRKENFNNV PDLELNPIRSKIVRAFFDNRNLRKGPRGL ADEINYEDFLTIMFYFLSI
6538	14589	A	7268	88	360	KINMGILLKLVYRFSIHPVKTPAGLF/TK NEQ**TEFDKRIKLSIWCKE/PYSTRTMF KKTEAKGLPS/P/DFKTYEATEFKTS*D QQKDRYKE
6539	14590	A	7269	2	355	RRLFFFFFFLRRSL/DSVAQVGQVWHNIG SLQAPPPGFTPFSCSLSPSS*DHRPPPCP ANFLYF**RQGLTMLAKLVSTS*PCDLPA PAHQSAGITDMSHRARLIVSLFKRQKTY GNN
6540	14591	A	727	65	1552	PLKAKMGKEKTHINIVVIGHVDNGQVSP LLGHLIYKC\GGNDKRTIEKFEK\EAEM GKGSFKYA*VLDKLAER\ERGITTDISL WKFET\SKYYVTYPFDAP\GHQRLLSKN MIYRGHLKA*PGLGGPLFGGVLP*LFAA GVWWNLKAGISKNG\Q\REHALLGLHT WVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALTLRKIGYNPDTSILCPIS GWNGDNNAWSPNA\NMPWFQGDGKVT RKDGNASGTTLEALDCILPPTRPDKPL GLPLQDVYKIGGIGTVPVGRVETGVLPK GMVVTFGPVNVTTEVKSVMHHEALGE ALPGDNVGFNVKNVSVKDVRGNVAG DSKNDPPMEAAGFPAQVILNHPGQISAG YAPVLDCHTAHIACKFAELKEKIDRRSG KKLEDGPKFLKSGDAAIVDMVPGKPMC VESFSDYPLGCFAVRDMRQTVAVGVK AVDKKAAGAGKVTKSAQKAQKAK
6541	14592	A	7270	1	336	RGDTGRTLAQRGARSSG/LPTV/LNPGRO LTSAG*PH*YGKARAAMPTPSLVRPVLK VGHSPSEVSGSAAEIAPWTISSPLYNPSS LPGPASSPMPIPNSSPLASPVSYTVLV
6542	14593	A	7271	1	371	RSRPELNDYKDKKAATKNVQKK*MQRQ KG/DIAIDATETQRIIRDCYEHYNKMSSSS SSSSSSSSSS/PSSSSSSSSSS/PSSSSSS SSSQSLPSKKNSGSEGFTAIFYQRYKTPL ILKLKK
6543	14594	A	7272	2	406	ARAARVFLHRTSLNLSNGGTQC*KTMV VHDDEYSEPCMTSPSKEGLIVRQTQSAS STLQKHKSSSFTPFIDPRLLQISPSSGTTV TSVVGISCNWMRP*SNKHYPYTKGSLSF* ISTHTYTPQSAFCVIFLHYC
6544	14595	A	7273	1	165	GSLPLLFNILEVLAKAIRQEKSQNEKE KV*LSLLTDHMI/YM*NPTVKKLT*KL T
6545	14596	A	7274	110	409	
6546	14597	A	7275	53	930	ARSYRQLTMEANGLGLQRIHTDTYPHPH LIARPQGFPELKNDTFLRAAWGEETDYT PVWCMRQAGRYLPEVRETRSAQDFFST CRSPEACCELTLQALRRFPLDAAIIFSDIL VVPQMFSPPPALGMAEVTMVPGKGPSFP EPLREEQDLERLRDPEV\VASELGYVFQ AITLTRQRLAGRPV\LG\FAGAPWTLMT YMVEGGGSSTMAQAKRWLYQRPQASH QLLRILTDALVPYLVGQVVAGAQLQLF ESHAGHLGPQFFNKFALPYIRDVAKQVK ARL\REAGLAPVPM
6547	14598	A	7276	86	552	KQPQPTAPLWQPLKLSKLGAPGHGPC CLHLLSALGSLPGLVPWLPSRVGC/SS*G LLLTSPQPSADPGQRRVALHHVL*VEP FASQEAQPPSLP/WW/PLRGDTESQGPS PLSARCTHPGCRSVRGRWGRARGWPAR CQGAGGPGGWRTTCPCR

6548	14599	A	7277	176	779	NSVSKLGLAPGHGALLPPPAERSREASQI PRGRAPGVHYLCLKQPRRGLLPQGNE RPLPSKPHLCAGLCLGGPGPTSPLPFETIR NWARRPPEA*PQGACI/LLSLGDPRGVG *PWV*TPGGLVFWMSLWHFGPQLKPPPL PRSLRPRPSLDLLGRKRHQGQDEKPGGA APQMRAL*PVLPLPPHPTAPQLVTATR KP
6549	14600	A	7278	32	492	FALVGQAGTQ*CDLGSVQPPPLGFK*FSC LSLLSS*DYRHVPPCWLIFVFLVE\QGFI LAKLVSNP*PQ/CDPILASQ/SAGITGVS HCAW/L*LSFSFFC*DRVSVTQAGMQWH DLSSLQPLPLGFN*FSCLSLPSSWDYRCV PPHPANFFIFSR
6550	14601	A	7279	19	253	LENSFLKTLPLAIACRNIKYMNLTKCESC KLREIKDLNKWGSTPCSTIGKLRIVKMS FLPKLIYKSQKTFFLQTLIK
6551	14602	A	728	344	803	KRDPSLSAYPFFKCNLLSTLHFMTAYAS LYFIYTEPVFVQHDWLHASKAL*IPFHISPS TTIPLTMVSQPYTEHYIVTKLGEFQVSK GNYIHKRFCFIAQFTI*LVITQPTMLR*ISD YLDKYIGFCPPQPMKQERHTYSPPYQGC VYSVVQS
6552	14603	A	7280	3	1023	FLNWKSKILYSTDDMIYIENAKESRKKL LE*VN*SKLLDTRSMYKSNFLYTSNNL GKPAF*KPYPLAIACRNIKYMNLTKCES CKLREIKDLNKWGSTPCSTIGKLRIVKM SFLPKLIYKSQKTFFLADIDKSCFF*DSFT PGLPRLEWPWPRSQAHA*KPSNLPSSNSP GLSLPSSWDSTSACHRRLANFFVFLVEM W*CMPTVPTTWEAKERAHLSPDVRGYIS CDCATTLPQGQNEISASNKTIVINIVSY WCKVIHTR/KWCPEQTTSMSLRVFTNL* RLGHWESRVSTNRTEPTNHTDKKVNLD PYHIWYTKMNSKWITDLNVKGKTIKVP
6553	14604	A	7281	1	407	DVCKPDLTVGLRYAPHQYKSVVATNLP EAKYWFLNWIADLSKAAPRNDALGTS AQAYYGYRKQEQLL*EEDALTGTNESL ERQMREMEENFAVEAANYQDTIGRLQD EIHNMKEEMARHLREYQDLLNVKMG
6554	14605	A	7282	1	3003	MNIDAKIHNKILANRIQQHIKKLIHHDQV GFIPGMQGWFNSTSKSINVQHINRTNDK NHMIISINAEKTFDKTQQPFMLKTLNKL IDGTYLKIRAIYDKPTANIPNGQKLEAF PLKTGTROGCPLSSLLFNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFADDMIVYLE KPIISAQNLKLTNSNFSKVSQYKINVQKS QAFLYTNKRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKKIYQSLN
6555	14606	A	7283	2	178	PRVRWN/RKVQKQIISIHGQ*IVDKGSR TIQ*RKNSVFN**C*DK*IFTCKRMNLYL YFVSSSSSSSSSSSSSSSSSSSSSL*EENTGI NLHDLGFGNGFLDPAKQATTA*LYL YF

6556	14607	A	7284	699	2526	MQYNIFQVLYLDELHGILGNLTNKFH RSIVANNLDDLDEKTHQLTKLAQKEIKN PNRPVTSKEIEPVIKNLPVKESPGLNEFT GQ/YYGQTY*RKELTLILLELSQKMEEK /V/IPVTFYKADITLTPKPKDLTGWYRPI SLMNIDAKKLKILAGQIQQLIKMITQHD QVRFIKEMQGWFWHIQMSIDVIIYHINRM KGKKVHMITSIDKKKHLTKIQHPFMVKT CKLGRKGNFLNLIKTSIKTHS*QHNSKTL KIFPLIS*KFLISPLLFIILEGLARAIQEK EIK*IQIGRSKTTFAENMVLVIKNPKEST K*FRLI*KFSNVAGCKINTQSKKNLRG N*/RQF/PFTIT*KRIKYLEINLTKKVQDLD TEKYKTLLEIKEDLNKWK/NLCWQVG RLNIVKMALLPKLVYRFNTIPIKIPVT/LF TETEKLTLEFIWGLQV/N*RYSSLFKTILN KNKVEGLTFSNFKIYCKATSIKTVLCWY KNI*SNRVEWKVQKQITPIHLWSIDFWP RGSRTIQ*RKNSVFN**C*DK*IFTCKRM NLVLYFIPYIKUNSR*IKDPKCKSVNPIKL *EENTGINLHDLGFGNGFLDMPAKAQT TAKKKKK
6557	14608	A	7285	2	577	KKIKNIKGSIQQEGLTVVNMYAPNDKPS TYMKQKLT*LKGEDNSTLIVGVFNITISV VDRT/SQYLSKEI*DFHNTINQLDLTTIYR TLYPTMKYTFSSIHRSKIGHKLSLN*F *KTA/NIFPDHNGMNLVIIPKKKTGKFKN HRN*HTLNH*IKKETTRHWLKITPRLP WQVRVFGAQSLOQPQLTAR
6558	14609	A	7286	17	377	QRKACAPRAWSGDPSACRPSVRS*GSTT *G/KPVNFDDYGDIIYIPAVNLKTFRELA ESLLTFQAYDQILGITCEYLPWRRSGGLS PHMLSLIYWPMVRLWGGRGDVYPSCYC CHMALYGM
6559	14610	A	7287	1	893	SISSQQT*SSWAPCYRSLPASTWASSLCS SSSLSISFSFSSVYSSPPGSSTPLASISAFF *PLDFSSLASVSSLLPSLNLTFSWLPPAS PLSSLAFPASTLVSGLPASSLMSSLP ACLSPTSQHACSS/STLSQSLPSTSCCLS LQTP*TLPDWGFERSQKGT*VAS*ALRKTS SPFSSSTSGLGAESREQQLGAKTNCASS RDRSSRCGSTENSST*GPTPRSSSR*PIPGS SSPGEKAAPAASAWAASPSSAPTHSGYE LLESSRKEKESCTSWDESSRAGAKSSGP ES
6560	14611	A	7288	827	1393	ARCRQAREDGRLVQRLCRRGHFVPLQH RRGAQERAPGIAHSSCAAEPRLSLRTDI SSALVWPRASCARSCPEMGPPLNKWAS GA*TLEECPPLSGSPRKNLD*PPGLEEPS RLEGGTPSSALLKG/PAPTYLPPYALDL PKPTSA/VQHSPTYPHVLPIPTPSSWR VVAVGALCSRQDNLDHQPRL
6561	14612	A	7289	104	464	
6562	14613	A	729	209	372	KRKKILRINKTKS*FFEKINKIYKMLTHL RRDKRQKKSEIKKGDITTDITEMKK
6563	14614	A	7290	2	394	PRVRNHPIQKWAKKGLDSHLSKEGPQ/A AISHMKRCPASPATRE/VQIRATGETHLR GCGNIGTLTRC*WGCK/LLQPLWKPWW WFLRSLSIGLRCD/PVATPLLSV/WPQAC KPGTQRDLHTTVFTAALFTVAEQ
6564	14615	A	7291	2	344	DTRTHVAEEDKLAIIVEPEKRGKYVWWF DPLDGSSNIDCLVSVATIFGFYITNSSD*P SFNHALST*RNLYLVSLPFHLAFLSTFHL SFLFFLSFLSLFSYLFFLSSFFSS
6565	14616	A	7292	1	348	RYRSGIPGRRTRAGETPSLLKIQQPG/GD GARS*SRLRLRQENRLNPEGRGCSEL RLCHCTPAWARE*DSLSKKKKKEFKIPIY FLTLLWDVVRTQYYSIPMCLLCGEMVT

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6566	14617	A	7293	10	436	EYYRFLEAKENRTATY*NL/MDHAAKAE LRGKFISIIYAIKKLEKFQIKNLTMQSKK LEKF*IKKSSNVFQARKEQTKPQISQRK *ISEKE*TKLRLNQCHKKSLKQPLLS*TK KDQNK*MRKEKGDIKLSGRVGRPEYLQ T
6567	14618	A	7294	2	403	CPTSTSTSWTMWGPACREHL*PLPTFP GQQPNTLP/RPTLRP/SP*TPTSACS/RP*/P AVPSRPSHPSHLPSPCPQFTFNPHL**G GPHPTHNLPPNPCALLQLPGFSTLPRLS P*TPPTPPICHCVSRFLAP
6568	14619	A	7295	27	88	CREEDDDLVESEDS*QWGESLKRVSFTL LDDEATEDAGDLNVKKNSDEVKSFEKR QEKESA*VGRKMMTWLKVKTNNGEK A
6569	14620	A	7296	109	409	KFKNMWKLNDTL/LNNHWVKEEIKKEIR KYLKRNNENKNTTYQNL*DSAKPVLREFV VINAYIKIEEGSYISNLTLYLKDELEIKA KVNRKDIRITEIN
6570	14621	A	7297	13	811	VCRRWSGGLARRFGSGCCSSCPQRR ARRSQVQNGKYL/FDQINRSLENYEPCSS QNCSCYHGVIEEDLTPFRGGISRKMMAE VVRRLGTHYQITKNRLYRENDCMFSPSR CSGVEHFILEVIGRLPDMEMVINVRDYP QVP*MDGACHPS/PSPSVRHQS/DHDMY PAWTFWE/WGTCCLANLSYRSWTEGPL QRRSGKVSTQWPWKKNSTAYFRGSR TSPERDPLILLSRKNPKLVDAEYTKNQA WKSMDTLGKPAAKDVHLVDH
6571	14622	A	7298	22	426	IFSHYFFQKFLRPLPFIMFIMHLLGCKVDL FIFQCFHLVFYFGLFYYLKLFCTYFKFT NCFLYSFSFTVHLI*YIFPSDIMFLYVEV* FKSFF*RYLPLCHVHAFISFLNILSLFSS* **LTIFYCPYLLFYH
6572	14623	A	7299	131	353	IFLPEKKLYKLEKWDRAFDNT*NF*T*K/I HTGEKS*KCKKWDRAFGWPHFIIGKIV HTEKNFYKGEQCGKTFN
6573	14624	A	73	702	1281	AVEMYLVVCGTVAISRVRMSAVCVLRT WSRNAGQLICFTVFQPCSNVHVL/KGP NYVCFFGYPSFKYSHPHNFVKTNAVC GQVLVQFRFPDTEEGIRKVTV/KCYVKEG DTVSQFDNIGKVQSDKASVTNAPYDGV I/RKL*HSLDDIAYVGKPLVNIETEALKGT VNLFYQIDYCPPFVIGSQLKVTFKKKK
6574	14625	A	730	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
6575	14626	A	7300	131	418	IILTEKKLYKLEK/CGQGF*QHLKLLNIKN HTGEKS*KCKKWDRAFGWPHFIIGKIV HTEKNFYKGEQGGKTFNEGSHLIAQESI YT*KKLSKYKD
6576	14627	A	7301	305	326	KTFRSQKKK*IHWDYIKILNFCARKNTIS KVKRQPT*EKIFANHISA*G
6577	14628	A	7302	3	416	FLR*IGSHSVTQAGVLWRDFGSLQPLPPG LKLFSCLSLSS*DYRRVPPCLAKFCIFS/ VRRGFAMLARLVLS*L*VVCPPCHVD LYN*SASQSAGIKGVSHHTWPHKYHLK NLNVFSYQSKSTVNNQLSSQILLN
6578	14629	A	7303	3	474	

6579	14630	A	7304	2	1050	REDTKAAVLLHLLHNVRPQDQTVVVFV ATKHHAEYLTELLTTQRVSCAHIYSALD PTARKINLAKFTLGKCSLIVTDLAARGL DIPLLDNVINYSPPAKGLFLHRVGRVA RAGRS GTAYSLVAPDEIPYMQDLHLFLG PLPHRPTPQGALRVWAGVDGHAGVGV PQSVVDEEDSGLQSTLEASLELRGLARV ADNAQQQYVRSRPAPSPESIKRAKEMDL VGLGLHPLFSSRFEEELQLLDLVNSIKN YRSRATIFEINASSRDLCSQVMRAKRQK DRKAIARFQQGQQGRQEQQEGPVGPAPS RPALQEKQPEKEEEEEAGEKCEDIFSEVG GRKRQRSGPNR
6580	14631	A	7305	3	872	PKSWNGPPHPPGHRHSRSHSNFSGCSVD EERSRTSKDSSSPVNDHRGRQ*MR*KNP FAASSRSTSSSSSSSPPLWSTAGRTPT TRSGPSPALDKVQIYMEHLLATAST/EPA GSAHVPGHLEFRAE*VLPAL*GRALLGTP VTNNLLGEIAKPSLSQSKRLKAAS/AAKY PHDVVNHLSCDEARNHYGRRGQPHPPH PRTK*KNGSFTPRSCRARCCST*VSPRRT RRAPGDPLVLRP*GPSGPLNTSVDSQ KPASNPGDVQNHPPGGLLVGNCNSEPGA PSAESFAV
6581	14632	A	7306	99	433	KLKVKGGKRYRMLTLIKRK*H*IKIQNSC VFLYTSN*ELENK/IFGRYVSFMA*KIKS/ LGILMKDV*NLHSEDYERLLTKIKDDSN KWTDMQFTRIR*YHKMLILK*PIIY
6582	14633	A	7307	18	146	LHDSNTRSPQFQKSLGFSTGRHRCPV*EG L/RSVTQAGVQWPIHSSLQPRPPGLQSDP PASACQAARTLCRWY
6583	14634	A	7308	1	240	LVCLSKSECLQPLFYHHLTLKNCQFHLC RILLHPQC*KQALRHGKACPLCHCCSHA ALYMICLAKED*KTFDPQELMYSL
6584	14635	A	7309	2	1790	ANQLQGEVGRFFVDCRP AEQY GAGHL STAFHLDSDLMLQNPSEF/DTAIL*SLLEA QKQSIESGSIAGGEHL CFMGSGREEEDM YMN MVLAHFLQKNTEYVSIA SGGMAL QHHLADINVDGPENGYGHWIASTRSRRS SINSVDGESP/KWLCKLRWILKHQV
6585	14636	A	731	99	641	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVPWTQRFFDSFGNLS SASAIMG/NTPKVKAHGKVLTS LGDAI KHLDDLKGTFAQLSELHCDKLHVDPENF KLLGNVLVTVLAIHFGK\FTPEVQASW QKMAEDVTGVASALASTYPLSSLAHDS ELSRDRLLFCKQIKI
6586	14637	A	7310	1	1424	ARILLDNHYAMEKLKKRVLEYLAVRQ LKNNLKGPILCFVGPVGKTSVGRSVA KTLGREFHRIALGGVCDQSDIRGHRRTY VGSMPGRIINGLKTGVNNPVFLDEV DKLGKSLQGDPA AALL*/EVLDP EQNHN FTDHYNVAFDLSQVLFATANTLATIP AALLDRMEIQVPGYTQEEKIEIAHRHLIP KQLEQHGLTPQQIQIPQVITTF*WITRYTRE AGVRS LDRNLGPLCRAVA VKVA*GQRT EPIWTVLM*LREKVAENTS*KMKNLNL /RDTTDLALPPEMPILIDFHAKDILGPPM YEMEVSQRLSQPGVAIGLAWTPLGGEIIF VEASRLDGEGQLTLTGPSGTVMKESAH LAISWLKQRKESTKLTNAFGSFDLLDN TDIHLHFPA GAVTKDGPSCWEVTISNLSR PQLFSGRLVRSDVAMTGEITLRGLALPV GGIKDKVLA AHRA GLKQVIIPR
6587	14638	B	7311	169	379	VSQRLSQPGVAIGLAWTPLGGEIMFVEA SRMDGEGQLTLTGQLGDVMKESAHLAI QLGSAATQRSTQLTNX*



6588	14639	A	7312	3	411	HHFLTCRIKKNKINYTIATKTKYLRINLRN F*SLTKPKLLKDIKVDLNKWKNISSWL R*FKLTNISVLPILYVKNKPI*KINTFFIKLD KLMPKFI*KNKHVKIGRK/ITKKKSYKGI LTLSDIKTYVKVSIHKT
6589	14640	A	7313	2	423	SFPLPFPLPPCSSPQGPQLLRKAITRPWPG TCPYPASTQVGEFTLRTRPQLSVGV*EEG CPYPSPADSPMSDPGAAPPHHPRSP*R NR/C/SSKGKTAVFAPASHLASPLQPTG LPGKRNNMLSVPNNTPOPDWVAPE
6590	14641	A	7314	2	416	ILSTLFQICHCLWSSQLLLTSHCQYHYCC SSKNKNLAWLLKLFLYNLEA*FIHLA VIFLYLSCLGFTALYEFVVCFLLLVLRSY SVLLFLSF/LFWNFSITHILELLCPICLLN VLLFMYFSFVQLQFGYFLFLCLO
6591	14642	A	7315	2	411	RQGLTLSHGPEVQWHDLSLQPLPPGLK KIFPPSASRVAGNTDVHHHAWLVFFPFF VRRGFAIVAQAVLQNPGLQAICPPMASP KCWDYRRGPPHPAQE*EHFLRSLPSTGE SYFGEL*HISTRKIKILVHFEETN
6592	14643	A	7316	2	333	TEPALSPRLECSGTISAHCKLR/LPGFMLF SCLSLPSSWDYRRPPHPAGFFVLSRRT GFHC/RLARDGLDLTS*SARLGFPKCWA DYRRDDPMPGPVSFNRMENLMETVD
6593	14644	A	7317	3	232	AASTPRPLRFLPSPTRGLVFN*RPRRRT SSAANTPAPEAPTSARPTRSNTHRLSP WSSRPVTEEMQSAAKHNG
6594	14645	A	7318	1	385	IPWSRVG*NHPVKNAHLPAVSKFKTISI KKPPLFFPRMEKTILKFLWDSSSSSSSLPV *SSSSSSSSSSSSVSSSSSSSSSSSSSSSS SSSSSSSSSSSSSPHKKIPNTYRQLIFD KANKN
6595	14646	A	7319	2	409	DRKEERLRSRSGAAATMSSGGKGVAE WDPLPCLDPELWDQFDNLENHLSLEKFII SAKERTIELSYTKQLRNLLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V IFFEVLNFQITVELQGHVQNKQOE
6596	14647	A	732	154	411	AGQPGPEGIQLG*PQIRDKGDQMGPHP W*VCGTLTPNTSF*VFCCVAGRDGAPGV KAHFPAQKPWDGGFGP*SAGVGPPPI PR
6597	14648	A	7320	58	501	DPRVRPGTRGPRSGTAGGETTWEGPFGV IVRVLMFLSYELRAAELGEVGAGGPRGA RRPSQTETAA*PASRFVRGLGPQTLRPTS PGPRRSRPLLGDEPPRRRVGGASFPTRN GSGAWALWRRPCWECSSRSFLRTTKLF LFFGFG

6598	14649	A	7321	381	2378	AASMEHIQGAWKTISNGFGFKDAVFDGS SCISPTIVQQFGYQRRASDDGKLTDPF*T SNTIRVFLPNKQRTVVNVNRNGMSLHDCL MKALKVRGLQPECCAVFRLLEHKGKK ARLDWNTDAASLIGEELQVDFLDHVPLT THNFARKTFLKLAFCDICQKFLNGFRC QTCGYKFHEHCSTKVPTMCVDWSNIRQ LLFPNSTIGDSGVPALPSLTMRMRRESV SRMPVSSQHRYSTPHAFTFNTSSPSSEGS LSQRQRSTSTPNVHMOVSTTLPVDSRMIE DAIRSHSESASPSALSSSPNNLSPTGWSQ PKTPVPAQRERAPVSGTQEKNNRPRGQ RDSSYYWIEIEASEVMLSTRIGSGSVFGT VYKKGWHVNVAVKILKVVDPTPEQFQ AFRNEVAVLRKTRHVNILLFMGYMTKD NLAIVTQWCEGSSLYKHLHVQETKFQM FQLNDIARQTAQGM DY LHAKNIIHRDMK SNNIFLHEGLTS*KFGDFGFATVKISRWS GSQQVEQPTGSLV\WMAPEVIR\MQDNN PFSFQSDVYSYGHRCMELDGRGELPYS SH\NNRGFRSIFHGWGRGY\ASPDLSKL YK\NCPK\AMKRLVADCVKVK\VEERPLF PQILA\SIELLQHSLPKINRSASEPSL\HRA AHTEDINACTLTASSPRLAGLPS
6599	14650	A	7322	3	419	EPQWIQALMPEKEPARQSRGGALRTDSS EPSRNEVKKTISFIILAKRTYLEIYATQDA *NLCTEKYKIFLKGIKEYRTKWKDILQS WITRHNVKMAKLP/KFIYSFTICIKMPALS FYKLILIFMRKYKGCRIANTI*RER
6600	14651	A	7323	3	222	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMSYIYPLFKIIGIYDKSLVNIILNVE KLKAFFLRTGTRE
6601	14652	A	7324	2	395	GRQPRWRLWGQLLSSGRRPLEPGWHRP SRGERGHHASFPEPGPCPGPQQRPOPG*V PVPEP\PPKGGPEPRSSGRKASGPSAQPPP AGDGARERRQSQQLPEEDCMQLNPSFK GIAFNSLLAIDICMSKRL
6602	14653	A	7325	63	451	KNQEQUESEETLPNLFYKASITLIPKLDTO K*KKRKEKKRKKKK\EN*KPITHRNIYAK ILNKILAHQIQYIGKIIHHDQVGCIP/GAF DKIQYRCMIR/TLQKMGIEGTHLNIKAIIY IRPTDSIENREKP
6603	14654	A	7326	2	137	SKAKINGWDYI*LKCWYTAKKAISGVKR QPTWE/EKIFAN*SSDRR
6604	14655	A	7327	755	1287	GGWDFAPAEGRERLAPCQIWDPSCLPTH W*PLSGLLSRPPPGTQSPQLSPYSCAKSW CPCPSLSPGSPMN*PSVPRTTGPSHPEPSA HGSHTSPIVATTERAPERISGGDSLGLSPS GLEGVNREPLFT\PPSSSGSSVSLMSSTP\P PAGHSAA*SPQPGRCSGPAQQQATSRSV RGP

6605	14656	A	7328	1	2239	MEERKGHKEIHLRRLKVRILSVRMSAIK ESPRLIGNQEPLKQLKQESKMNRVYFN TDYSGCIRLIQSRLSHFPESGQONPKPY MRKFKTPLMIAEEKYRQQKEEIEKQKQE SSYYNIVKTQSQNQHITEVEKEMPLQKT NEEVSLSGIDSECTVVQSPGQSQSNARIL GVCSDNQLSTTSPETVAAKRLHHVLAAS EDKDKMKKEVLQSSRDIMQSKSACEIKQ SHQECSTQQTQKKYLEQLHLPQSKPISP NFKQSEIDVQITFKKQYLKTKKTEASTE CSHKQSLAERHYQLPKKEKRVTVQLPTE SIQKNQEDKLMVPRKQREFSGSDRGKL PGSEKNQGPSMIGRKEERLITERKHEHL KNKSAPKVVKQKVIDAHLDSQTQNFQQ TQWQTAESKAEHKKLPQPYNSLQEEKC LEVKGIEKQVFSNTKDSKQEITQNSFF SSVKESQRDDGKGALNIVEFLRKREELQ QILSRVKQFEAEPNKSGLKTFQTLNTIP GWLISEDKREYAVHIAMENNLEKVKEEI THIKTQAEMLVSYENIIQTAMMSSKTG KPANGA/ALVSTKTSKVSNVHVSNNEN SEQKEN*IAKEKTVQHQAHADEATVRS HVKTHQEIKLDDSNIP.LP.*KHSPPSPTFI TIESTARRTENPTKNELSQSPKKDSYVEP PPRRPMSQKSEIHRANTSPSPRSRSEQL VRLKDTTAKLSKGAIPCAATVPPIVEKR SEIIMSPATL
6606	14657	C	7329	110	298	MPWISEGRATRCLRVPSARRGDEGLHQ RATANSVYKSRNTWLCWICKPPQSSSPK ISEKRF*
6607	14658	A	733	233	353	STAPGSGRQRTVSEEP*PHSTEDGQRGQ WGGTSLQHPAQD
6608	14659	A	7330	127	742	LVRVFPWREDKVWWHCQE/CRPKR*KS KPGLSGPV/APGHSWDSTETTEATGLLLI PGPTRRPPTLYHTPCCLSVPRWCRPSSPL LAEGTRRQGLVALPSLIHQIPMGLEVW GLASPPRIPGRKWHR*KDKMATQALSVC RA*TCILPPSTKTSRPRPHSTPRGPAPTTV QRNSRRVNBKSPESPLPRPGLPVSEPHVA GTRTARDG
6609	14660	A	7331	2	433	FEDIK*VIGKVKKMMSKQRGNNINKGKIIK RNQKEIVELKSTVTKIKNLLGGFKNRL*Q TDK*ISYF/EDTTVEISQSGKQSSSRLEGR EQSLKNLWNTIKLTRVYTVGVSEKEKKE QIV*KISAGNFSNLKNNMINIQEAQRTF
6610	14661	A	7332	1	281	PR/PDRDSEAPGADGAGPRGALPVPGGH GQDPAEDGPGVHAGGARDGGPDARGA YPPMPSTRGCRKGSANLP/PVGFQYVH PFF*FPGVTAKIQRMDQVFTLAVRETE ALIPPEVPTRQCPAHEAVGKVHWLICH WFSICPSLFLISRAQYFYP
6611	14662	A	7333	33	427	GSPAPGLPKGWGFRGGPPGPGKFVFFKL PKGGFPGAEIFLGEFFQRGKKGLGPIPPP VFLKTEEGGTL/NSFFKGRVFLVFKPKA GSSSSSSPNYKPIYLNNTDTKFFNNMLA NRI*QCIKEVMQYDRTRG
6612	14663	A	7334	491	731	DRGLCLPTLEVQWAPILGSLQPPPPGFKQ FSCLSLPNSWDYRCMPTCPANFFVFFCIF **SRFHQVGQAGVQLLTSSDL
6613	14664	A	7335	2	575	AGQVGQLGFPGWAGGEGRRPPLL*LSL PGRQLPREGLTSVSGHPCWP/DSFGLP GVEKPQGNLAGGALLPKLQRQSGGNH KTLPISRGPADPGAVPVCHSTVGRG*HS LALHTVPPEKFNIYFFTCPENSSFNLSPLP FRSSLEGIQAGVSSAWGHSAGPGLGLS GDGRQRQARRFSLHSCLPCSP

6614	14665	A	7336	19	422	GEKTDKIQHPLMIKTLTNLGIEKAYISIIK VIHNRPMACIINGAKVKAFPVRSERQRC SPSPLLFNIGLKVPVRAIEKEKEMKGI*IG KKEIKLCLSGNDMTLYLKHPKNSTKTIR TDTFSKVAGYKNTDAWV
6615	14666	A	7337	33	193	GNLGETLMDIGLGKEFMTKTSKAQATKP KI/DWDLN*KSFCTDTNIMHMLIYL
6616	14667	A	7338	87	713	DIYYNCFGFASRKTDCLSTRIPCFTERTSS NS*TQNLTAIF*IKYDCATVQACRSRNK WEVRDALNKFSGTNSIFYIIKRFYIYIYIF FFFFFFETESHVAQAGMQWRNLGSLPA PPPGFTPFPCPSLLKWLGPTRRPP/RQTL ANFFVLLVETGFTMLARMVLIS*PRDPP /ASASQSAEITGVSHCTRLLKKIRFAKGHV EFFFESHVE
6617	14668	A	7339	2	105	ENGWCWIATYGKRLDSYLSLHARVNS R/WDLDLGTETMEILEENLGEVLLDIGLG /KEFMTKTPKADSTEIKINR*DSYIWKNE NWIPISHYMQELTQEGLGSRN
6618	14669	A	734	1017	1880	TLAKWWTRREQRSQSTQASSYHQWQR VGACGQAARMRSAPAVIPTRPGEFVHQS LESASNSRLQPVTSTGHRSAPEAGLLTG CVLMPGCSASQASMEHLSWSPCPDGFCT YRVLRSCLNCNCRPDGPEKENHGQPE AAVRSQPEGPEGGRAGRPEPGGGPHLQ EPKASETHNPGIPSREGAAAQGHLOQSG THVRGGKQPSAAGPGRIIARVLSGPPGPR ARGRGCADGS*ASPRARSSCRSGGRSRA AAPRRRRGGAGAACARGCAGG*AGS AARGSSGR
6619	14670	A	7340	2	362	STHETFSKIDHMMSTSLSKIETIVLSIPS SSSSSSSSSHSKSNLQNYTNTWK/LNLLQ NDF*VNNEIKMET*KFFEMNDNDTSYQS LWD TAKAVLR*NRKDHKLTT*HLKELQ KHEQTQS
6620	14671	A	7341	58	341	IKKFRWGPKPPLKEPPGV/SPDFPII/NFGN PGPVPGKDFKFPNFSSSSPWGGRAPPVVP TTPGG*MGRFP*PPAFGVPRGGDGSPPPG APKEGPLS
6621	14672	A	7342	2	428	FLRRVSLYCQAGVQWPTSVEPPPPGFK *F/SCLTLPSSWDYRRAPPRPAKFCIF/M* RLYFTILARMVISIS*PCEPPASASQSAGNT GVSHRAGLVFLNKPVTGLGFDSSHHPYH SQISEKDPPISSIFNKKSIHTNLLIPN
6622	14673	A	7343	2	686	PGPPPEVRQHVRVPGTRTGRAAIWPGSFP VGFPPLHRAQGRGQSPFPPOGTGKGLGLE WKGCCHAGAQETGSPLPIMVHFGSWE MVSRGKPSS*QLEA*GRGRAPGLGSKAG PRLHQDTPASQCMWVCLNTPSRQVRVG PDTQGYVCVPLPPQPHAPRMNQGLPPG APPPPPPSLVPKYFPPSQSSWDRKIPRLQ APPCPPRH/GPPS/AVTNALPNGPRLSAEA PWL
6623	14674	A	7344	1	603	SGCSRRCPGPWACWTPQKGRGGRKRR SGLWGLCCWCVRPHSHRRAGCHQDGE CDRWGLLPDRHSRLWIFLRNYWHQLGG E*KANAGGSDRVYQFWG/AGPPSAAPSG AAYLQHSTLNRGPSREDASFTPVGWGT CTMSTRQRSVPVPTWASAS*R*EATPVT AVTSMPAGAQSPRPPTMSSASAAAARTG CTWNGWFWAL

6624	14675	A	7346	19	1562	GRYWRVVDHGRESRVSGPRFRP\SFLAA LPPGRHPWPWDAAGGSPAS*GGAA*S ALGLSQPRPPGASDAAPDSTPAGV*TASS SALIPSRAR*KGSGTLEETKSRRPHSHRS GPVDLSRSSHSDSTPVHGPYFRSAPDP VAPPRPSAGQSQLGGGSSGSPGNSIPCAF VQQ*LERA*RSHS/SPGSEHRRRA*SGGLR QGVQGIEVFGLGHPPGGYSCGPQPOEKS PPPAHPLGVEIWCRLYIGWKSHSPHPA LAEDWQPVPPAAMAVGAPGLRRIQRTS RRWGQCPNEAGHAADPRDSGPPGNYQP VSLHILHMDPGTC*PE*QHPRPPL*MAG KQWPCT*LDKGQSLGLAGSHQHQCQW W*QQLQSHSTLCSPPPR*RASASPC*AS WGRSSAGAAGFRALGR*HLGTSPLGSAG SLPPCTAEPPADASP*LSPTVLAELGSEG ASEECHSCPHGSPQSLSGSHRPAESQYH VER/WKQDMGPISVKSPTRRGPTSGSGL LRLARSSL
6625	14676	A	7347	473	792	MLARALDARFLRWCRDQPLVYHSP*PP GASDAAPDSTPAGV*TASSAPAGEKDA NQMEWARR/VPRAPPPGSPGSLIPSRAR *KGSGTLEENKSRPPTQSPFGAG
6626	14677	A	7348	3	411	LCAAVNRALDEGIPLTSALYYATVTLDQ VRNILRSDTDVSMPLVEERHRMLYDTG KILLEKFGGCFLNCVRESENSAQKLMHS WAESCPSYRDVTLVEGKRASFYKRTQIL VSYTCIVLEGK*DACLODILSITML
6627	14678	A	7349	2	331	AGGPGLPCVPHLPAGARAWRCQQPPGA ACCPGRRLPL/GKPSPGSSSRQRGQS CRTVSVLPSPSPGC/RGSQVRPDLGPPKA EGCSPWGLRAESCGATGARVRCHRCVV
6628	14679	A	735	1000	1211	VPSTVLDALHILFCLISFLKNKLGWCSGL TPVIPGLWEAEAGLLESQEFGTRLVNM AKPCLY*KYKKLA
6629	14680	A	7350	1	1062	EAGPGGQAARSQRGSSLGLVLPPLRLQR CGAPEGHASPTPAGPGAPNQLAAPWLL WPCA*PPPGLCYPAPPPPPQKHP/GLLPA PRALPSPRELPGEEPSAHPVHQG/PSCRA TRPASASFKSHSGEFRQGLISAAHILQELP GPAGVENFQKVFNGAAGPAARHGPSSRS SC/PCTHGTSGNREKPLSTKSKKNKSA WQATTQAGGPGLPCVPHPAKQVLAHGD ASKPPGAACCPGRRLPL/GKPSPGSSRSS RQRGQSCRTVSVLPSPSPGLPGTKVRPW *GHLASLVWPGPPGKSPGQSTRPVGTLK RGVHPLPQVVGQSRFAILVLFGRQGE RAGMLGTCCLLAKPEVTVA
6630	14681	A	7351	423	826	QKVCAHT/CLRGTC*IFTHLCVLRGLCW LLGCEMCM*MKYVCMCEKCTFTVG RC/M*VCVCAGDREHLAECVRGCVRH CTRA*VRMCI/CVCTC/LCV/CV*VSGVCI CKSPCVLCKSIVN/CV*A*THTWFCVHVC V
6631	14682	A	7352	310	863	STHLSLPKCWGLQA*ATLAQPNRSLLK YKFIYMSKGHYSVKVEKQPTWGRKIF WQTMVSG*GGLESRIYKELLQLSNKKTN A*LKSGAKAQHRHFSREHMHGQQHQ QRCLIASLIREMQIMT/LRGYFTLIRMIT RKSDNN*CWQECAEIGTLL/HYWWECE MVHGRGKIVWQFLKNIQLP
6632	14683	A	7353	3	357	SISNENFPTKESQGPETFTGEFYQTFI/DLS PILLKLFQITD*AGTLPSSFYEISITIIPKE* KSQENYSAMYLMNIDTKIFHKILATQI*P YINVIIHYDQVGFIPGMQSSFNIN
6633	14684	A	7354	2	207	GRVDHHTHPLRPLCPHSPDP/PQRM*SH SAVGASGLADPYERIVVS*DGNSSSPNH QGDGASQTSGEQI

6634	14685	A	7355	1	801	QPRDPSSGTHHPDGDGRGGQPAPICPRQG SCSHSPLEHAPCPILGPGSWPRWHL/DLL SLLGDPKVGGPIACPPGSPPHA WTGPVA CPGLGQPCSTPILPHIPICQHPKAPGGH PLCSKLLTCLPATPAVPSQPGHHHPLFIM SGLMGAWPSPEAGPGVLPSTTAE*GTR HWTHEEEAALGATDAVTSPPGFGRQVP APRMPAWKPCIRGLLHSLPSEKPLQVH RECVQPCEGLGPLAQTGAPQAQAWGPT DLSPQLPHRKHLK
6635	14686	A	7356	3	926	SSGTRHPDGDGRGGQPAPICPRQGSCSHSP LEHAPCPNLGPGSWPRWHL/DLLSLLGD PKVGGPIACPPGSPPHA WTG/PLWPVRAL ASPAAAPILPHIPICQHPKAPGGHPLCS KLLTCLPATPAVPSQPAIITPCSLCQASW EPGLLQKLAPAPPKLDHVGPRSQPGGPD VGVPVCTPKSRPSTCDTTPPLPGLNEER ATGHMRKRLPWELLM/PVTSPLWLWAA GPCT*DACLEMSLSHWPPSQPPPREKPLR SAQGVCAAL*RAGTTLPRLGPLRHKA W GPTDLSPLPPQKASKINTRGMESVK
6636	14687	B	7357	73	255	XGSSEQQDTCNPGPCSSPTGNPEWGLR DTALLEDLGKASGLLLERMVDMPPANNK CLIFRKN*
6637	14688	A	7358	1	710	PIEITSQCGGIPRFAPITVGVVRVSSLPHHS RGEGLQPPPSQSG*GSPAS/HHHSRGEGL QPPPSQSG*GSQPPPSQSG*GSPASGPGF CWGQ/RP/PLPSCSYSPGALQSSRTPAQT QGPAHHLRGSGPVHGGPPAPSPSCLLP/ SLRVLPPGLPAPPATSTVCPPLPVCTPP WVICQPPYPLAHQAGLG*LPLGDREGVP FHSPNPSLQVCPRPLRKPRPWSSGLGPH AHNPMPSMGRSPPRATWTLT
6638	14689	A	7359	3	750	GRGAEQGSHLARAAAVPGSGPAWRPRP RGGLGLRPARSALRAGLPGRVAAVGR GPALPGQG/HLQSSRTPA/PNPGPCSSPTG EGVPPFHSPNPS/H/GKSVPGSSGKYDGLG VGLCPHAHSPMPSMGRSPPR/GKRGL*P DAQMQEP/SKWGLSGHSPPGGPGKGQW PAPGEDGGHASQQQMPDLPEKLSPSFTP AHLHSLPEA/PVRHEPCLPR/HGPCGRQP HPVCARHRRARRAQAQNKACPAAGKK KKKPVPN
6639	14690	A	736	109	346	PRSLSPHRPAPPPSVSVGFRPRGKRGTQG DKGKCLGYRGPQQL*PHGTGPQTQGRR ARGCYLQPGAWGPLLSPWECDV
6640	14691	A	7360	102	380	GKKIPMLYFAEIEQCILKFVKRS*KAK*I LPKNNKAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELRST SPSYQTQVQ
6641	14692	A	7361	190	375	VIYRVSIISIKIPTTFFTEIEKTYNLG/WND NRP*IPKAILSL*NKVGDIPLDYEYHLN MN
6642	14693	A	7362	102	345	GKKIPMLYFAEIEKCILKFVKRS*KAK*I LPKNNRAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELR
6643	14694	A	7363	12	380	DPTVCCLQEHLTFKDTHRLKVKSWKKI LHANRNQKKAGIAKLISDKIDFKSKTVK RDII*MIRASIHPRRLINSYI/WAPNIGNT*I HKILKDLKGGINCNTIIVGDFNTHR*SRQ KINKHWA
6644	14695	A	7364	3	298	RRS/NSVAQAGVQWRDLSSLQAPPPGFT PFS*LSLPSSRDYRCLPPCLANFLYF**RL GFTVLARMVLIS*PSDPPTSASESAGITGV SHCAWPISFS

6645	14696	A	7365	82	526	NHSELQLKLRVA*KMKCTADLSLLEKDT *IKLEENR*QERIMLRAEVNEIENKIENIN KTGGSSEKYYKIDNPLTRSIRRK\*T*ITS FRNEKGSVTTNPTEIKRTVKEY/YYEKLY ANKFNNLDEMCKFLKHNLPKLTQKINR KSECS
6646	14697	A	7366	146	588	LPQVMAEFRNNPGEVEGRKAKSMKGQT TGKNQDNPNVIDEIDFLEAFKNIQPS/LFE ASLGLMGIKPVDWEEIGGLEDVKPEVKT AH/WSLRQKSGHCPV/GARLPTGLLATL GSGSGSGRATEAVSGPAG*KRASIGGSS QRPRRFTVP
6647	14698	A	7367	2	1041	CREAAMHALLHSEKDNPNVIDEIDFLEAF KNIQPSFRSVIGLMDIKPVDWEEIGGLE DVKLKQSNESPLTFPWEFVRMGLTQP KGVLLYGPPGCAKTLVRALATSCHCSF VSVSGADLFPVVGDESEKVLQIFRQAR ASTPAILFLDEIDSILGAS/RQPSKTGCDV QERVLVLLNELYGVGLKTIERRGSKSS QQEFQEVFNRSVMIIAATNRPDVLDLAL LRPGRLDKIYIPPDHKAARLSYKRLYK KPCPIGPDVLENLAETCFFSGADLRNL CTEAALLALQENWTRPQTLVKQEHVF*N HLRL*NRSVKVARTWLYMKTYLRKKDF LTVEGI
6648	14699	A	7368	1	2046	
6649	14700	A	7369	1	4340	MSAFESVPDDEEVDVDAVPENKLTFDNL AEGFRLFKTACDFLYHMDLSMNEDIEKE VKEEIDPDEEESPKKKHLDKKRKLKEMF DAEYDEGESTYFDDLKGEMQKQAQCLG GRSSVSMQAHRRPVVHGGDSCSDPAAM LTTVKAFTTGGVLQRGGLQSSWQAPIF MDVGEWEQRNWRNCRKLLWGFAAER SREMKPLLVEEVESKGFIERTEGRAV GIKSRKSGWCLGCPRTENQPACLOSDL NSDPRAL
6650	14701	A	737	134	387	PRSLSPHRPAPPSVSLGFRTRGKRGNGQ RQGEVSWGTGGPQQLWPHGTPGPTQGR RARGCYLQPGASGPFLRPWECDV*ERG
6651	14702	A	7370	18	731	KEELYGDFENLQTDGVH*GKFGPDSLNE DVQIQEEIDPDEEESAKKKHLDKKRKL KEMFDAEYDEGESTYFDDLKGEMQKRS TGKQHTRFPAPRHVQLNHAEFEDQD DEARVQYEGFRPGMYVCVEIENVPCEFV *NFDPRYPILGGLGNSEGNVEHVQMRL KKHRWYKKILKSQDPFISSVGRRFQTI PLYIYIEDHNGRQRLKYTPQHMHCGAA FWGKI*LQ*LAYCRD
6652	14703	A	7371	97	373	TYESEYFLLLLFLFFRRQSLALLPRLECS VKIIAHS*NVKLLDSSDLPSASRVAGIA GACHQAQLIFIFVEMGSCSSFLSVGL NQLF
6653	14704	A	7372	1	464	LVFFSWCLFVCLFVLKTESHSIAQAGVQ* RDLSSLQPPPPGFNRFSCLSLSSWDYRR A/PTMPN*FYCWPAGLKLTSGDPPASAS PSVGITGVSHCAQPRIVSFTSNILKFKNS LSKGCLIEAYFDKTVKATVLEYLALRNP KPEEHIWGLY
6654	14705	A	7373	181	652	QNRDVHPPAASPNSAAQGS*RAKTHSVE GPLSVPGSPAA/PARSL*EQNPVKHSL P**LSSQLGSPLEDVGNLTLRHKPQSP PSRGRPRPEGTRLHFTEPQRLRSSRQPTI TAHVVLPMPLPTPPAAHACPLPTHAR GTSSKQAEPPSACS

6655	14706	A	7374	56	480	TRPTEHLKLSSAVSPGFCRWPPSAPKAEL SPAVPRSPAAGAATIAVVRSRWSPGEP CPLQTTASVRCAPMHRRPVDGACSPV *ACRAAARLGPREGPPWDQSPQSR KMLPVFGRASDAPFIDKKGFCLISCCG
6656	14707	A	7375	265	2253	LSILSHCKRGVGCWLFVALGWDHEQP CAPSTHGRAQPE/GPRVLPGRSRRP/GTQ TLAAPQPEPGECTSQARSGGPVSPHKAG SEAQES*EGSEDPD*ELQQERTAKNILG KRLPQ*IILYCHSHLGEQPQT*NPGERRV *PPEFGLGCG*D/STLLLAEEGSGWRGP/P WPAGASTPLEAQAPV*AGGCGPPAELPP QPGGAGHPGRIPGGGSLGHQAGG*GQ** PHPSGPA*PSA*GPRSRPSPGGRSQPAVS GPGWAWHCPASGPPGTSSFEPLWLWP LPGLPGQQRPPRLSAARGPQAHGPPRG FSSPGDRHGPAGGPAVHPARHQR*PAVP AGVTQPGAVQLLLPHRAGPLQGGLGS LAWASCEGPPSLLLALPRASWLQTENW CQWLPPPSQVVSLGNRQ*RPDFAQGIP LRGAPLGPRLPWRGLARAPAGPWWGAP SQCQLPWGRHPSGHLSACPGLP/GGSVS GPPSGGPAGSPPTGPS\GAPGSAG*GPGM AQGGPQEL*GQGPKAGEADSPSPWPCL QGPPGLWAPLPRALDAPPAWVYPPRPP ASAGGSFCAAPRSPPAASPAGPASGF/SA APACSLITLKQDGGGPSISGPASFLQLAW PPGFHPARLHGPSAREARAGSPGPGAGF SAGRGGFPWLSAGCPVSPA
6657	14708	A	7376	58	412	RPAGCGSTRGTCEWARPSAAPCQTAAG GACSPWTPAPRSPAGRSWASSSWPG*C WAPPSGHGAQQPSPSSGQWWVMRWAP AS/WLPSGATPGPRFLALGTIGVPAGPRS PSPSFPTQRF
6658	14709	A	7377	1	1548	DKDNSGPTVLHLTARFGHPKVNNWLLH HGGGDPTAATDMGALPIHYAAAKGDFP SLRLLVRHYPEGVNAQTKNATPLYLAC QEGHLEVTQYLVQECGADPHARAHDG MTPLHAAAQMGHSPVIVWLVSCTDVSL SEQDKDGATATHFAASRGHKSVLWLL LHGGEISADLWGGTALYDAAENGELEC CQILVVNGAELEVRDRDGYAADLSDF NGHSHCTHCLRTVENLSMEHCVLSRDP VELEAKQPDSCSMSSPNTTVSVQPLNFDL SSPTSTLSNYDSCSSSHSSIKQHPPRGLS /KH*SCRHTELHGHAEPRAAGALGHDWE AHTPTPTQLPPATPAPRHPTAPTPT*LPI SQASCGTTGS*HLHADQEQTTPRGDRGP QEGAE/PPATATTGYGGRTPAASPALSAS SPARGTTTGSWAAAPARRWSHARAWRT ARRRNSLGTCLTAAPRTPRRPGSSSCR RRRRRPCPRPRVRRRRSRLCPSRALALA AGSAAPPRPPAAPSLST
6659	14710	A	7378	2601	4758	
6660	14711	A	7379	1	741	
6661	14712	A	738	33	509	VSVSVGLRPPWELQVWVLCVPRGQAKT RLEPAGRAPEAPLPALSVLAGGSDSDSRF RQSLSSAAAPGADSLGARTELVEPGPS RPRPRPRPRPSWTTASTADASRRRAAGAR GRGNESAGSGAEVRSEQVKRESIGNR* KRKNKTHSKRKKTLQKQG
6662	14713	A	7380	3	5650	
6663	14714	A	7381	1	1131	
6664	14715	A	7382	421	582	LPGAQGMPPRGVQ*PSGLHIPQGGSTRTS GLKAMRSPPKNHQVPDSRAGPWAYC



6665	14716	A	7383	3795	5290	WNWTVHGDGSAGQGPWLHLFCHKRQH GGISWPLVQREGRDEHFRNQREIAPPAG REQTAVQKQREMFCNSTGRLPGQPTTE IQV*RV*RP HKIYAE EERQFKEEKLAEQL KQAEELRQYKVLVHSQERELTQLREKLR EGRDASRSLNQHLQALLTPDKPKDSQGG DLQEQLAEGCRLAQQLFQKLSPENDEDE DEDVQVEEAQKVLSSAPREVQKAESK VPEDSLEECATCSNSHSPCDSNQPHKNI NITFEEDKVNSTLVVDRESSHDECQDAV NILPVPGPTSSATNVSMVVSAGPLSSEKA EMNILEINEKLHPQLAEKKQQFRNLKEK CFVTQLACFLANQQNKYKYEECKDLIKS MLRNERQFKEEKLAEQLKQAEELRMGS GKYLNEHFVFTENDEDEDEDVQVEEA KVLESSAPREVQKAESKVPEDSLEECAT TCSNSHGPCDSNQPHKNITFEEDKVN ALVVDRESSHDECQDAVNILP
6666	14717	A	7384	125	605	EAEALNQSQPCDTG/PQSAFSPPGSTQH PRSQLSQCKQRYQDLQEKLLSEATVFA QANELEK*RVILSEPLLKQDSKQVQVDL QDLGHETCGQSKNEAEQEETWPPAPYL VPRAPSCRPSQSRRGRRYPERSQRRPR GRPPPPCPRIKVKDGKNKTQG
6667	14718	A	7385	310	327	TVKLL*HVGNISLFSPSP*MLNTQWGK KSFNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6668	14719	A	7386	310	327	TVKLL*HVGNISLFSPSP*MLNTQWGK KSFNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6669	14720	A	7387	3	642	GKGLFDDEDEESDLFMEAPQDRQAGAS VKEESSSSKPGKIPAGAVSVFLGDTDFV GAASVPSLKEPQKPEQPTPRKSPYGPPT GLFFFSAPHSPSKTRKVQSTADIFGDEE GDLFKEKAVASPEATVSQTDENKARAE KKVTLSSYSKNLKPSSETKTQKGLFSDEE DSEDLFSSQSASNLKGASLLPGKLPTSVS WFDEDEEDNLLGVQ
6670	14721	A	7388	1	3096	MVTHQQAARKPNMTSKKPKPMGPKA HGIFSGTRKNNLEIYMDQTRTGIAKTKLS KNNKSGGMTLPDFKLYYKAIVAKIACG GSMYNSDTDEDEETEPSSSGQIENSIT MNKMKLLKAKMKNMNLSSKKHITQVSD EEEDDDGCDLFADSEKEEKDIEDIEENTR PKRSRPTSFADLAARIKGDVGRVDEE PTTVSYEDDRRGKNQDAYTEGGLSTIKT VNCSSSLAPSGEAKLRKTL/KEKKERRTPS DDE
6671	14722	A	7389	1	238	
6672	14723	A	739	2	349	PASSIQQGRRACLEVTWSCSIWNPTAT GGLDRGSRVRSREGGGEAPVRVQGPGE MIPAVPKSSWTLHKMQLPGHVCSTLGR RGDEKGEAGPEAHAYDPSTLGGRGQRIT *GQEFK

6673	14724	A	7390	1	1374	DDIFATEAIKPSQKTREKEKTLESNLFDD NIDIFADLTVKPKEKSKKKVEAKSIFDDD MDDIFSTGIQAKTTKPKSRSAQAAPPRF EHKVSNIFFDDPLNAFGGQLRSPSRCCQA DCCPPDSGLWVWGALVGLGGARAAQHI TQVSDEEEDDDGCDLFADSEKEEEKDIEDI EENTRPKRSRPTSFADELAARIKGDVAVG RVDEEPTTVSYEDDRRGKNQDAYTEGG LSTIKTVNCSSSLPSGEAKLRKTL/KEKK ERRTPSDDEEDNLFAPPKLTDEDFSPFGS GGGLFSGGKGLFDEDEESDLFTEAPQD RQAGASVKEGKGLGSCVSVCRVPKLSF SLGDGTLRRHGCAASVPSLKEPQKPEQP TPRKSPYGPPTGLFDDDDGDDNDFFS TPHSKPSKTGKVQSTADIFGDEEGDLFKE KAVASPEATVSQTDENKARAEEKVTL YSQNVKP
6674	14725	A	7391	1	417	MDSSRSVGNFTYQDKLSSSKLTSVLEA VAGEYALVINGHSL/ARHRY*LGQYLLS EHFCPGLLYLVLIISDFREDWSQRLGG AETPRCLLERLALSGFSVLQAHLEADM ELEFLETACACKAVICCRVTPQLQAQV
6675	14726	A	7392	3	700	LVKSYLAQFAARAISELVSISELAQPLER GTHFPLFLLCLQLAKLQDREWLTFLQ QSKVNMQKMLPGKRKLCLFCFFNIISR DFRYLEWIYVGQTV*LSCDNDKHYHRS HL*REIYNLTTFI*SRC*VFFICWVGSLLC YKDLKYLGDICEALLSGQDHLVK*TIR* CRWLCLESDQNKDRMLEILEGKGLSFL FPTPQLEKDLFEQIKLDPSPQTTYKWKD NI
6676	14727	A	7393	83	3064	GRPRLLPPPSLPLFFVFRSPFSLPYPRRP DPEEAAA*AAAEFLGEGISFLLSPPLTPS INILLKILRCQAAKVESAJAEGGASRFS SSGGGSGRGAPQHYPKTAGNSEFLGKTP GQNAQKWIPARSTRDDNSAANNSANE KERHDAIFRKVRGILNKLTPKFDKLCLE LLNVGVESKLILKGVILLIVDKALEEPKY SSLYAQLCLRLAEDAPNFDGPAAGQPG QKQSTTFRRLLIPKLQDEFENRTR
6677	14728	A	7394	259	1157	EARWQDVGRQLTKTV*PWGRGWSRIA SDPRLHAYFSYTAATGKAEPRTAPC KARERLGSCLD*SPPPPGWRPLRYPT PRRAGPAQFGKKRSASARSTWP*/VMQ RLAPKKTRKEQSANDHPIGGPEGRLFTS QLQLKFRALSERISWLEVSRAVTPTSAA VTSTPSTSKPRQKRPNSQSRSAKPTPG RRCQPGGRCPTCTRSP*LR*ARGRRHGE ARRLPLREARRLPLREARRLPLRAPSFR KVPSPGQGRSAPQAGVGAGTGRRRRSM DAWGRARSLAGSAGGVISLGR
6678	14729	A	7395	3	432	HIKRVKKNHMIISVGTEKAFDKIQHSFIIF FKFRKK*EWGHFFNLIKFS*KVRANITL SGDAFSLILVIRQGCLLLPLFDKVLKVL DSAVKQEKIIRDI*VGKEIKLSLFEDDM IVYIGNNK*/SYRKLPEFINEFSKVAG
6679	14730	A	7396	3	504	AASTGGGWVSEFESVAPGSPDTTAAPTC PQRTPRSLE/LPHFQS*TGPCLNPISEPV EPGQNRGKPRPHYPGPNGWPGPA/GGC WSKPGSTPALSDDQANTQVDRN/DLQV ASEGEGA*PAELFPKKMKKRLGDLGPGF EGKNGLSTEDKNLIPQAWVPALCGYHV L
6680	14731	A	7397	376	419	VRKYSLCFYIL*NLFQNIKAEGILPNSFNE ARITLILKQTRHSKENKPYRPI*MDRHA EILNKISAN*IR*RMKRIHHGQVRFS*/G/ MWGWFNIRKQINV/IHHTHSLKKKNHMI ISINAEKEFDKIRKLPLRNIYKQNI*LTS* VMVRNS

6681	14732	A	7398	205	1463	VYKKVEASRNEKGWVCGTHAGAFPDEG EGPEEAFLGAETAAGAP/GARDHPPFN HGYAGLLEGPDQLQVGSHPGRRQA*VC G*RAPQSDCPGSGRSGMGEAGMPPR/Q GPGGLQPPQEGSVFAVMYSIGGQGA RIPVRPQPGREGVGQGSLOPMKPDGEA ASIPTAGSRSGRCGPAGRRALVGRSL RP*PPC*PSPR*SPPSSGASSPGHPRPAL AHNG*SGWATRG**DTAPS*HLLVPKQ LAGTCLLCRCPKST**AKLEEIVPGSFHSP RGSYSRGLGAQHQLPSASVAHPRCQPA PSAASHG*RRPRACLSLHGQLGMIW*S *APSGVQAQGHTHPPGPDISAERAPAGS* LSQLQGPG*DSGGLSGGCAVPVAAGH PGSLAWQLPPR*SPAPGSGSPAGRP
6682	14733	A	7399	2	680	
6683	14734	A	74	743	1233	ECGVFSFPFLRQCLVLSQAGVRWPH LGSLOPQDSPGSSRPSHLTLLSSWDLTGT CPPCLANFRIFVETGF/TCFRLVLNS*G SSDPPTPQSVGDCRAGSHHTLAVFSFCF EMGPCSITRAGVR*HDHSSLQ*NPGLK RSPCLSLPSSGDYWSMPCLA
6684	14735	A	740	15	239	
6685	14736	A	7400	658	1657	PGILSLRNALLTGVDCKVVVPVPPGHTH PQLRLFHHPKTCSGWGEWGDHGVVW AGPAPA\YHLHRDVQALWTNDHALAW P*AMTSERTLWPGHELSARPGRSWRISC PTGLPQGGDDRTRGHWVTATCCSADGL RLCRYGD\GVRGGLPTVAWP*LTGCSL RYGSGQQCCYTADGTQLLTADSSGGSTP DRGHDWGAPPFRTPPRVPSMSHWLYDV LSFYCCCLWAAPDPGKDRAGLGCTPT*P STLTLASAFGDPHFVTFDGTNFTFNGRG EYVGMG*NQGGRLPSGSRSAPTTAGTE TRGTGLTAVAVQEGNSDVVEVRLANRT GPER
6686	14737	A	7401	1	422	RPKPKNSF*LGGEKANKIPHPLMIKTLTK LGIEKTYVNIKVIPNRPACIINGTKVK AFPVRFERQRCSPSLLFNIGLKVPARAIE KEKEMKGI*IGKKEIKLCLSGND\MTLYL KQPKNSPKTIRTDTFKAVGYKN
6687	14738	A	7402	247	660	NWSGRRLRMWPSAALSPAVSSPALALTS PPKPLVKGRDGKPPAGRPPGREGPGAW R*GPSPTTLGPAKAGSGQRGGRCP*GP GWRPAASQPLSGCPWCPGITELLESPSE TAEQDRGPGSGEDS*TPDFYTPTRP
6688	14739	A	7403	229	1047	HSVQKAKADKTGVDGGSECGPPLLSLL QSHPRP*P*PLPQKPPEREEVWPKDGKLL ASRAGGLVCISLL*EPRVHSCTGGLPVK AELGLLRAQGLPHASPARGNTG/VGL ATE*TGISEHKLGLGN*GVMGDAVR*G LCSEGLCPPSRPWGPMGVCGGLAAKAR PH*QG*VCAPGTHLEGSSVWSLPSQLFP TPGPPAVCSALAPAPTPARTDGTIQNHL WPVTRKSALPVQEWGGDSWGTGQAQE EGPSVGYPGCP*LPGEGRIPPL
6689	14740	A	7404	595	626	CPMPLVPPDISLINEQTEKEAGDLVCP/A GPVPDSFPLGSEPSSHGVSELKTRAKRQR ERHKKGGTEKDRKAERGTPPGPLLPFLF VH*SG*CQVAQGALDIISWLKIVPKSVFP GCPLKSWAAAAATPCSPCHPSSHCSVGV PGRASKFCACPLECP*SPPSPLSLQGPHL CPPPFHASPPDGNPGGQGVPLCPLRGSPG HLCAMSRCLRWNP

6690	14741	A	7405	1	603	EMESRSVT*AGVQ*QDLSSLQ/PLPLHPG FKQFSLPPVSPSKLGITRHTAYLNFFVFL VGDGDFAMLARLVSNSSSQ/CDPPSSAS QSVGITGVSHCACLTCSLCCQTMCFVA SRYF*FWDGNLFCYNLQIGDVYFIIYLF VMRPSYITQARMQWCDLGLSPSPPRF K*FSCSLSPSSWDYTDHAPPCLANFFVFL AEM
6691	14742	A	7406	211	387	PNLG*LNPPPPGLKNFSCGLP/SKWE*K GQCLPPGPVNFGLTKLGVFPCGPGWLE IYN
6692	14743	A	7407	3	326	LSGVMLSPGFPGYYLFST*CIMDNKATH RYCVYISS*IFLQK/HHDYLEVRRGSSE TSTGIGRLNGPQIPCFLSTHETSLYFHS DYSQNKQGFHIEYQGERSNKK
6693	14744	A	7408	1	553	SDPRTETESHKMLTD*RSSYLSLTALPF/P LPKSEAITRNRASRAASLVRLTPSKKDV GFLQKPRLRSCSPSSRCPPGSAARST*AA GTACGCCGTSPRQR*APGALGLRRPPQS *GRRSSPRPSLTHPSSSALPPPPTSPRTR YRG*SRAAPLLSLRLPSGKLFQPTCRPRV SLR*RPSQRVE
6694	14745	A	7409	3	377	KLSPSKPILASTLMGPIYHSHVKF/IPGMK GQFNIQKSIIMTYHINITKNKNDMVISSSS SSSSSSSSSSSSSSSSSSPIEGNYFPITKE/Y EKSIANIILDS*KLKAFL/RSCKRQGYLL SLLFN
6695	14746	A	741	2	311	FQLDTGSRAPML*CSGVIMAHSAKSLQ TPGLMGSFNLSLPSRWYRHIPPYLANF LIFFIEMGSCYITQGSHPFTLNGLSLSSLA NKIQGNIGSDLVEDTG
6696	14747	A	7410	1	409	NKVFHNKRSHQENKTLNVHVPNNKD PK*LK/QLTKLTEDTDSSIIIVKDFNNPLS/ TL/DRISTQNIS*DLENLKNTMNQLDQINI YRT/LMPSNTKIEHMMGHKISFIKFQRIKI IONTFSENGVTKSNNRYLENPKL
6697	14748	A	7411	3	414	KGQDLYGEV*KVLLKVIKQVLNKWKD MSCSNN*HTNFISN*NCIKVFF*LDEI/CSF V**NKC*RIAKEVLSSSQ*CLGGHL/TPH IRRSYNTTFSQSIWCCYRTKQID*WTRTQ NPEKDLRI*GDLIYDLRCCSSSRA
6698	14749	A	7412	3	333	LIKEGOIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRLMGQKFSVREKMDISGLQV QDIVKPNTAHTFIITGRKRSL/ELQTRSSR ATIEKHKQNSETFKAFGGRLARD
6699	14750	A	7413	3	391	EEDIVNPANDLIKEGOIQKRSKNGTPQD RHLFLFNSMILYCGPKLRLMGQKFSVRE NMDISRLQGQDIVKPNTVHTFIITGKRS LELQTRTEEEKKD\WQIIPATIGKHQNA GETFKAFGGPLNQGW

6700	14751	A	7414	3	1811	RYIDVLGRRYTAPGLG*LWRHPAQSAVP TAHCGDPVSLAAAGDGSPDIGPTGELSG SLKIPNRDSGIDSPSSSVAGENFPCEEGL AGPSPTVLGAHAEMALDSQVPKVTPEE ADSDVGEEPDSENTPQKADKDALAQH SGPQKLLHIAQGGFLAPVEETYVVKRLHL DQ\VFCTRG*RMRGIPPERSSWGHNLSNI FLPFQASHGQFLPELKTRITEEWD TNP RLGDILQKLAPFLKMYGEYVKNFDRAV GLVSTWTQRSPLFKDVVHSIQKQEVCGN LTLQHMHLEPVQRPVRYELLKDYLRRL PQDAPDRKDAERSLELISTAANHSNAAIR KVEKMHKLLLEVYEQLGGEEDIVNPAHE LIKEGQIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRMLMGQKFSVREKMDISGLQV QDIVKPNTAHTFITGRKRSLELQTRTEEE KKEWIIQATIEKHKQNSSETFKAFGGAF SQDEDPSPDMPITSTSPVEPVVTTGSS GAAGLEPRKLSSKTRRDKEKQSCSKSCGE TFNSITKRRHHCKLCGAVSPGRGGGQGE ATLSSALTEQLSPHQHTSHAHPQCTEG LPDPGSWI
6701	14752	A	7415	189	392	KQKWEKKQLKKSPGPGAAAHTCNPSTL GG*GGRITRSGNRDYPGQHSETPSLT*N GKNLGRGMVGG
6702	14753	A	7416	2	325	SHAGCLIRFWRKSMPTHTSLPLTPTFLGT CEASFLEPRASVPPQCSMALRRYRLDM GQSFWGGPSSHPDPSRPGFV/PGVGHV PGQEGPGGKPADSS*H*DPTGG
6703	14754	A	7417	9	1430	NDNASFGEVYYHPYPPVGSQCHDES GA GFPPGPGSCPGTWPTPAKPGREGSGWL LGQASPVTTAPCPACIF*VPCCTGEGQG WLGAPGKDASH/GA*KM*GVKGRLCVG APEGAG/PSQGI*SFFTEP**AHPQNGLYE DEHKNSRWGHPHPA*QWNWDRTS*CNI PSRP*VPHPWVRCAGLEPAGPGPHRTRT PSQGVILFLQKRIKQPACEPYALFTPLSP HSSVPASARPGSPSD*MCRAPEDESCPEMA LLPGMGPPGSGERCSPRSPGAQVTGGV PGPFTWGSGESRCFRAPSPGASGEEAKC SRSPFTGGSGESRCGAPSPGAQVRAGV PRPITWGSGESRCSPSPGAQVRTGVAP GPFTWGSGESRCGPLHLRPGSVYPVFLA PERKGPQRQSQEKGHKRGSQAAPKPSS R/PQESPSPLTPSGGPGS\GRNGA*GVSEG *SAPGSGGEEEDVFGC*GPPALGPEG
6704	14755	A	7418	1	389	HLTFCHHHYDDRVRGLYKGQKECPGIPR VYRIRHIGRHLVYLQFKDHPGIHQPLE PQVKYVGNMHSNAFGR*LMLQLSEFL CEEIRNKNQRIVQLIQDTRIHLPSMNPDC YQGG\VAKGPNKPWLC
6705	14756	A	7419	31	392	KHNRASTPPS*KKSSSPVTTKGRVYTKTP HTDVPQG*QPPYKQRGGTSSSPFSFISY SIVLSSSR/PPHPGPTSPRLHPSRSHLSEV PPLTQVPPLQGPVPHPDPTSPWLYLSPSS YLY
6706	14757	C	742	398	574	
6707	14758	A	7420	2	704	TDSKCPFLVHQAHAAM*KERHFLTANG SCIKFHQDINRLSSVFLP*ELVVRHCRG HQKRVDEIAKGNRLADQRAKSAVRRPQ GPKTLEAPLIWEGYIREIKPQYSP/DRDR MGHLSRYTFQPSGWLQSEDCKVRLPASS QWKILKILH*AFHLGKHKTSVHPKIVLRR KSTKNGQIGC*YS*NPLKNNPFNR*LLPH HNQRMGSYSGEDWQIDFTHPKINGIQC LLEWVHTFI

6708	14759	A	7421	2	705	FSRDEVSPSWPGWSQTPD/LRDTF/CLGL PKC*DYRCGPPH LAESKFYFPII*KLYHS MLCL*ADSKS*KPMSLFLLFLFLLTQN FALVAQAGVQWHGFGSLQPLPPGFKRFS CLSLSSWDYRCLPPRLA*/FFVFLVQMG FTMLVRLVSNS*AQ/CDPHALASQSVGT IGISHCSWPNVYIITTM*IFFSIPSPLLIR HLFFLFFFETESRSA*AGVQWHNLGS LQPPRL
6709	14760	A	7422	33	775	VMGPAPAGEQLRGATGEPEVMEPALEG TGKEGKKASSRKRTLAEPKAGLLQPVK LSRAELYKEPTNEELNRLRETEILFHSLSL LRLQVEELLKEVRLSEKKKDRIDAFIRE VNQRVVRVPSVPETELTDQAWLPAGVR VPLPKCPMP*RACFR/FLAPKPRITVCEA SYLSGQPSIRPDINVDVALTMPREILQDK DGLNQRYFRKRALYLAHLAHLAQDPL FGSVCFSYTNNGCHLKPSLLLRPO
6710	14761	A	7423	74	576	LCWQPIRWWSPTLRANGHQK*/SGVAILI SDKTNFKATAVERDKEGHYIMLKLGLVQ QENITILNIYAPNTGTITFIKRLIDLRNEI DSNTHIVGDFSTPLTALDRPPRQKVNKET MDLNYTLEQMDLIDYRTFHTTAETFT YSTAHGTFSKIDHRIGHKISLNTFK
6711	14762	B	7424	158	346	XLSQGEVVPQIPVKS GGGPHGAGVLGLHL EGPFISREKRGAPHAHLRSFEADAFQDL LATQGQX*
6712	14763	A	7425	1	1768	FFVFTFVMYFTTIFKKQTKTNLKSASPTP QNHP/GSSSLAQ/PLSHDPGPLSHNPGLA LWDQPSLPAPPRPSSQGGGALCGEWGQ PGPKAGPGLTSS/GDWGVPSEVGDDQHA SSGF*/P*GWGTFKH*QPASLGTGRCS NTSAENLTCLSLPGSPGKTAPLPGAQA GAGQPLPKGCAAVKAEVGIPAPPPPGG QDPHPSPAFLG/SPGACGLRSTPCALPQA LPQARPCPGRWFFPWLFQFQGGAPDHP ISLDPGDISFNWALQOEGKRTSARA/RGA YLLCPRTAP/GKQGGREPPTPELKWRESQ DNHP*RGAAPIPDV*PHCGCPQSQEGSRS PPASKLFQGESRPVFATWVCSRAKGTOK MAG*H*WGEQGLVPRHTALQHQAGSP QPASTGPGDV*RDRVIEKRKQNAHPW HSLGSPGS\KNRGPGPSLPPGQSGAPG NCALAQEPGCGF/TRCTPQTQEQKANP*L STLPVTGPLPAGSSPPAHGGFTPWAPAT* LPAPPSH**HFPGVCRSPVP/PSCRQALSP TGAQGP*TTAQPSHPRP*MPSPGGQPA WCHM*AAKPGAKASAPAGCTFSQPPPP GRR
6713	14764	A	7426	36	620	QHLKLLNIKNHTGEKS*KCKECDKAFK WLSHFIIIGKIVHTEENFYKCEQCGKTFNE CSHLIAQESIYT*KKMYKYKDHEKAINIY SHL/NHWRVHT**KEYKCNVCQKIFQ/INI NL*SEEGIFYFEDEHYKCEEGCSTFICITDFI VHILY*KKTLK\CCSNFVQHQQGIYIEEKL KFNKF*KTLFQKVQLRRHQSSY
6714	14765	A	7427	3	276	PKKSTEKLLEVISNNSKFTROKANVQKSI TFLQYNSNEQVKFKM*NTLP/YKMKYLG ISVTKHMQDPYEEKYKTLMKDNKEEQN K*RDIPCL
6715	14766	A	7428	125	456	LADWAHRAPASPQRNGADYAVYINTAQ EFDGSDSGARPDEAVSWGKIRVDAQPV K/VKRWLGGA*GLWDDECGSHGLPRFPP TQVYAAASLVFPLLEAETFAQKMDAFT HEK

6716	14767	A	7429	1	571	LSGKEVRENGIHRVGNLLVPNENYCKF EDWLMPILDQMVMEQNKRGGFLKKIW TPSKMIARLGKEINNPEVYYWAQKNHI PVFSPALTDGSLGDMIFFHSYKNPGLVL DIVEAERG/ADYAVYINTAQEFDGSDS/G ARPDEA/VPPWVGKIRVDAQPVKVYANAS LVFPULLVAETFAQKMDAFMHEKNED
6717	14768	A	743	3	862	RNERHAYDKGTWKTRRAIMTVQ*SGET NVDRAYNLLYQTLTDWTDSYVTC*ENKEI AAGQRNESHSDWTQYQVWEWLQHLL DTNQLDANCIPFQEFDINGEHLCSMSLQE FTRAAGTAGQLLYSNLQHLKWNGGHTG ISKSKETRHLFPFFYLPGHTLATCRAY SKRLQPKLQCAVHSFVTPGIPYLDEIGYR ARDLREPGQGV AALLPLSSDGNPRRPG LPKLKAQRRVRFPSPNKGRGGPSSPPFHS AFLNWQHKNVWMVKELSSYLGPLQY YPGSFGGAI
6718	14769	A	7430	1	311	RRVSSESRRSLESRGRSLEIQGRMERPR CQRFRENSCVAPRHCKGPGGKGLQALF* VPVAQLGEPGAQLGDPGAHGEATVPEV QGE/PAALLPGTAKVPGEGSPGFIPRHC RGTGEEGSPGFTQGRETSKAQQR TGCLL SCRGCCLCLSVSGDS
6719	14770	A	7431	250	503	DDEKSKIEE/VWVGSDEEDNGKDKKK KTNKIKEK/YIDWEELNKNIWIRNSDDI VTQEEYREFYKSFTSD*EDHLAVKHFSVE
6720	14771	A	7432	3	540	KRRGSFKMAELYQLPDESSAKALVSLK EGSLSNTWNEKYSSLQKTPVWKGRTS SAVEMPFRNSKRSRLFSEDDRQINTRSP KRNQRVAMVPQKFTATMSTPDKKASQK IGFRLRNLLKLS*RH*WGIL/AKWFYSNI DKPLFEGDNDFCVCLKESFPNLKTRKLT RVEWGKIRRLMG
6721	14772	A	7433	3	322	FFLRWTL/DTVTRGGIQWCNLGSPQPP/P PRFKRFSCLSLSSWDYRRPPPCANFLY F**RRGFTMLARLVLPN*PRDPPASASQS AGITGVGHRAWPMPIFENRFDL
6722	14773	A	7434	22	475	PRMISCRPTRPPTRP*SHSAPFRHFLLVHP VKAKYFLSAVMTTHHLASASHFPPFAA* SATFPAAPQPMWTS DLPQPPSTCLPLGTS PLPSRPLLVS SCS/SFPDPTQMPPLSTVFP GLPFL*PHSSALSLPLL*LPHGFA LSPSSV PFPT
6723	14774	A	7435	14	362	LFYQTFSNVN*KT/RHKMNK*TEDFNNTI EQDLTVTFISLHSTVEYAILLITHATIFI DHLLS*KTHLSK/CSADGITQIIPNYDTIK QEVKNTNMSKNK*KLNNKFSNTLLFKR L
6724	14775	A	7436	1	440	SPFPKPNFYFSLRPLIFLRGVGPKLPPPKK RVFSKNPPEVFKSPPLKKNFSFPPPVNL GPPKDLLKG/PPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSPDRERPPTI*N*PTRP
6725	14776	A	7437	8	487	DEVSLVAQAGVQWHNLGSLQLLPGFK RSSYLSLLSSWDYRCPPPCLANFFIFSRD GGFTMLARLV LNS*PQ/CDLPASASQSV VITGVSHCARAPSF*MSASGV TICVGW ELFGMSPVAEANDHLSGALVPFSALFS HFMPGLLPTMFCPLRGCE
6726	14777	A	7438	1	445	IDCWHKCDNSMGKDNLFN*SYWDYWI SI*KKRTSNLISPIHKIES/RWIINLVNSK ALFRKQKRTLHDCGLGNSFVEETQKAL TN/WDIK LQ/SFCSSKYTTKKLKR*ATD WGKIPTLFAKNNDKICEHTHNKRRYM FGQMHV KWWA

6727	14778	A	7439	131	763	PGISADSRGQQLS*WGPSHQPPGPKLG SAPGGGLCGLVGPAAKHALRPSFHSGA PSAGNLGCFAAWASSLNSNQSPSSKG HIPKDRGEPRGTVP SLRKATATGRKAER LSDEGRSSVHG*AGIPGHEGNAKENRDR HPWQLPGIASAAVVIASGRGALPPGGQA GPQKLAPPFSSLSVPGGARWG*AEGAPS KQRGKVTGEPGRQC
6728	14779	A	744	15	404	RNFRVDDLVS PRCCGILWFFTQGGASCW RPLATLPSRQKPGSSPGKAGCWPA/WDL GLVPHGVSGVSIAASSTPQGGAVCSPSV AAPSTLLLLRTHLLGAASLQGCQHILL HHLIGMDLYVAASPSHRFW
6729	14780	A	7440	47	265	
6730	14781	A	7441	1	330	HHHLAPFSSLPFNIVL/EEVLARPINKEAK *KAP*LERKEVKLPLFAEEIQEMIWIYDN SKESTKEELLEINKFIKATRYRFHIQ*LVF LYTCNNLK*KLIK YLSINLTKV
6731	14782	A	7442	3	423	NNALLNNPWVKGAIPKEVRPYLD/TREN KVTA*QNLWDALKK*/CSGKLIALKE*C QINNLSFPLKPEK*EQIKSPVNIKNVIFK KLKIKKGLKV*KK*RKISETKSWFLEKVI KIY*SQGRHARKKNEKSGITRDSRTRG
6732	14783	A	7443	1	689	YIYIYSYINIQFVFL*EHLINKFLSFVYQ LMLKH*KKRTTNTLFTLRTM*AFLFYY QIICISYVIAAVLFCI*IFFP*HLCLLVVLF MYFFNILRFIPLLRSDITSFHYMPLFGRFL SC*SKQEH LHNCQPGIYFINLLVWKHFFL DVIFTLVYYFVG/FALILYDFLIMSV*TF YLSLFISR/ACLLFYPHI*LIFIWAYISRLEII SFHTF*GIYTFASEIVFIIF
6733	14784	A	7444	3	545	TMLLFTLQNRCTSSHCPMPAPALCPGK LTVGTGSMGPRSPWPPSSANA*PVDKP SGQEG*GQCTAAAPCRVAVSLSKVRAP GDGLSCGSSCPG/RQGRGVPCPAAGER REGREDLKPRE*IGSCIKNKLGISPAK*D* KNSQDKSKKNPIGDR TSLAVGTVPQSTR PRVPLGYHYCY
6734	14785	A	7445	243	768	NLPNK*QDEGRGGGAEP PPWPWG/SLPPR DVEAPSPRLGAPAWPPAGRGWPPREG AWLG*VLCFRKRSPLPVLGVAGA*ASVG GGCVGRCPLSGAWPPPGVGDKPSPYCSE RPAASFP/PRTCVPFNAEGGGERAPRDSR GEGSLPCCRGEERGQGLKTTRINRFVY QE QARDFTS
6735	14786	A	7446	596	1335	LEQITFSVATAMDSRFPDFQDL DLEPERA CHDAAGTLEVDFFLNFGTVDLAGRKE TTTEQALPPALLGIRPEFLSRPSVQTED APSKVNYVLCCLIAECSPGSDYLP CAIP SAYR/RWYLD FCPR*FLPPYY*RRHPFQW TTVTQEA FSHHDVAFTSTPVLFPYPSAQ PFIVKSESSQIAKAALSQQRPSLIYERL HFFS*SLQRHTIDLDQGIF*ILMLSEERQH LFESSIGHPHTISKD
6736	14787	A	7447	199	450	ERSFSKKMP*NPPGGGEPP*PTLGIPSSPP PHLLGPKFLEKIFGLPGLPGGKIFP/P/GFA FGPNLGS GGEIPGGINPRSLPLGER
6737	14788	A	7448	154	695	GLLSNLLISIFFIPPKKSAPKYQH KMHSQS FHFYCFNTHFNFLNKF/FNELQ/K*HEL KLE*SKILYNQNKPSVTYREIMQLRAQL KKIIDS VKHKRTWQGLKQGV/YWGFYV NVIGKSFFYFWDKYFIFIDWAKNTLRIN MGPERPTVFLPNFIYSQSTKLALNWVINI MGQFIPSYSVSA
6738	14789	A	7449	203	443	FFVKGPKNTHW/RKDSIVNKWC*KN*IST CRRMR LDTCLSLYTKJK*KLRPIEESGTE PR
6739	14790	A	745	1001	1459	



6740	14791	A	7450	8	312	QTLALSPGLGVQWRDLGSPQALPPGFMP FLLP*ASQISRDYRRPAN/LMPGPNFFIFQ AETGFSTVLAPGWCDLPDLVIHSASASP SAGITGVSHRCPARTF
6741	14792	A	7451	1	2554	MKVWLLLGLLLVHEALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGRFQKPAA TSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSQP KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRGFGVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKGPILPKYVAVS VQLSRAGACFSDVTHREVLMSFCYMVV GGDFLLGGSLVCQVWFVFWVSRGYTLI FSESREYLKEEEELFLCKGPGYAGQVRK KNDDPSSVKQNERYGQTLVNSTADT GEFSCWVQLCSGYICRKDEAKTGSTYIFF TESGGRISVLVNLVLT AQELLAHEPFDD VSRNSAPNLKHHLTVTQRRQVGKKAKK NYLFQEHCGENTRKHVIRIGVSLALKISL CKYCNIPSQNDPEKQRIQCTMPKKKSHQ HQQKYPQKPSPEFLACPKDRIEKGELFVP SPSYFDVVYLNPDRAVVP/PGDRAVG QSHAPQGIPSGDPSQWNGHCL*HEAGL CVSATSFRAPGCGLLQGGGRGQISDLRQ VPAALRGGPNNSSKPAFCSSCHMQAPW* V/LAALSRRPQFPPLSPPLSLLGHQVTG IPSGPPSTTILASSNKVKSDDISVLCVTL GEPDVEVEFTWIFPGQKPPSRVTGLWAG TWWCLYRVL
6742	14793	B	7452	1	2586	MKVWLLLGLLLVHEALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGWFOKPAA TSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSQP KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRGFGVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKESREYLKEEEE LFLCKGPGYAGQVRKKNDPSSVKQNE RYGQTLVNSTADTGEFSCWVQLCSG YICRKDEAKTGSTYIFFTESGGRISVLV LVLT AQELLAHEPFDDVSRNFAPNLKHH LTVTQRRQVGKKAKKNYLFQEHCGENT RKHVIRIGVSLALKISLCKYCNIPSQNDPE KQRIQCTMPKKKSHQHQQKYPQKPSPEF LACPKDRIEKGELFVPSYFDVVYLNPD RQAVVPCRVTVLSAKVTLHREFPAKEIP ANGTDIVYDMKRGFVYLQPHSEHQGVV YCRAEAGGRSQISVKYQLLYVAGWMFS FLVMTLTENPSPFPNPSIVHSGAASVL DQQSQQFIQACFLFLSHAGSMVSAAL SRRPQFPPLSPPLSLLGHQVRGIPSGPP STTILASSNKVKSDDISVLCVTLGEPDV EVEFTWIFPGQKDERPVTIQDTWRLIHRG LGHTTRISQSVITVEDFETIDAGYYICTAQ NLQGQTTVATTVEFS*
6743	14794	B	7453	520	600	MIDCVFGAELAESLFFILGILGFTLL*

6744	14795	A	7454	78	624	TNKSQGSQGLCVAGPRACQSSPVQQR NVPPLSILSAPFSGS*GL*PCGGVLGATG GAELMGLLRSWCPPGVCTVSLGQQVGS LSLESEPPASSLNNRGLLREGQAASVGG QPKVTSPTMARVL*VEPPVCETWGPHP WQMGPLPRG/VWAGPPQTPPCGVTQLA ANGKQPVVRKPGSYP
6745	14796	A	7455	3	369	ISQPPKNLGPPEKTYKRPPSSSSSKKEFPF FFPGESKGGVLSRPGSSSRVKPFSAPTP PKKGGPRSSSRGGKSSSRNFKKKGGFP G*PRRFFFPGPCKPPRPPKKAG/H/YRGK PPGPGPK
6746	14797	A	7456	2	648	QTLPFKGRLPQEDGLGIRRPSPALPWL CQGPAAACPLPASLQVVPQHMDPIQLVP PFLSPARLLEL*EGRQKGRWGRPSQAG GQEKQLSSSSASPTAERARPPFRAGTYG* CLALP*VTGGVGPMASTLPVTTGMGQD SRGNR*EGPGVR*/DWGCSPRER*EGGTG VALEERGLLQRQREKTSVGVSSEPGEVF QRPALPGPWVCPRLHKRLA
6747	14798	C	7457	89	376	
6748	14799	A	7458	3	864	MNFSPLFPSNFGDFSQNIPTSEQQQPLA QNSSGKTEYMAFPKPFSSSSIGAEPKRN KKLPEEEVESSRTPWLYEQEVEKPFK TGFSVSVEKSTSSNRKNQLDTNGRRRQF DEESLESFSSMPDPVDPPTVTFTKTRKA SAQASLASKDKTPKSKSKRNSYSSWK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIICNRST EISSETGSDFSMFEALRDTIYSEVATLISQ NESRPHFLIELFHQLQLLNTDYLQRAL
6749	14800	A	7459	2	743	KASAQASLASKDKTPKSKSKRNSTQLK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIICNRST EISSAHARRILQSNRNACNEAPETGSD SMFEALRDTIYSEVATLISQNESRPHFLM ELFHELQLLNTDYLQRALYALQDIVS RHISESHEKGENVKSVNSGTWIASNSELT PSESLATDDVFIQEK*KYASQKHLHINV HSIFSHDSLKLKHQEING
6750	14801	A	746	3	357	
6751	14802	A	7460	1	336	IYFPTPEKFGPPKETLKKGAPSSSSSKQKF PFFGPGGKQKGGFGLQTLPPS/RSSPFP QPPQEKGFQGRSSSSG*ICIFKKKGGFPG WAGGVQNPKNPKGFGPPGLKPWG
6752	14803	A	7461	1	3010	YRIPGGGTWQSARPRVGSRAVDGEGA RRGLCSPSSRRWRPGPPQHPGPRAPA LSCAAAAPARRPRGHAESRRDGLGSAE EEESWYDQDLEQDLHLAAELGKTLLE RNKELEGSLQMYSTNEEQVQEIEYLT QLDTRLHVNEQHAKVYEQLDLTARDLE LTNHRLVLESKAAQKIHGLTETIERLQA QVEELQAQVEQLRGLQLRVLREKRERR RTIHTFPCLELCTSPRCKDAFRLHSSSLE LPA
6753	14804	A	7462	2	190	SSNKKKPPNKNHPEPDSFKTEFYQT/INT P*IPILKLFQKTELQELPNSFCEVSITNSS TRR
6754	14805	A	7464	359	1095	PKGNGNLWCGASLLNARMRAGNKSP LPRLPPGATKSLPQALQFQPLLAEPDSA AGLGTGGTPRLTEVGGAL/S**RSGSGFP ENQKGPPDPASGYLDLMHTPPFSQDPIS PASHMPIPSWSTLFSVEDRRSRQKTTGR WGSRCGLPHTCSILVGGVTREGVEMLP MGTCGKCAPPFAPHLAASSNSVLTAGDP APGAGRLGSAAQEAALGQGGRRSQAP PRRALQRPHAWVETTSQWRSAG

6755	14806	A	7465	16	405	VGAIQRAPPPSCARCLHTPDIRATLTQ TPGGLTPQQEKDHEHGHGDRAGHSGAVS VWVLDPGTCSRRRRWFSPLYLELLRSS GECRG*SPASPSLSHHTAHVTPKAFIEHL LCARCKEDSGITGQGAF
6756	14807	A	7466	16	255	ARPSCPCSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLAKLMTYFKNS TYLIRLFMIYRCKPVKSKKKKRN
6757	14808	B	7467	1	1026	MRARRLPWALTVAELGWDQTQGGDQT SPGGNDRMSMEAECESSTVSPLSCSIPTG CGQTREEVSARATPPPSLGASLLQTLTPD THCTGVSATIMSMVLVFLLLWPFSSST LAKHKRIHTGEKPYKCEECGKAFRSST LAKHKRIHTGEKPYKCECGKAFRQSST LTKHKIITEKPYKCECDKAFKRLSTL AKHKIHHAGEKLYKCEECGKAFFNRSSNL TIHKFIHTGEKPYKCEECGKAFFNWSSSLT KHKRIHTREKPFKCECGKAFFWSSTLTR HKRIHTGEKPYKCEECGKAFFRSSTLT HKTIHTGEKPYKCECGKLLSTPQPLLNI K*
6758	14809	A	7468	1255	2710	ARPSCPCSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLANVTLTTCQAR LETPDFQLKNGVAQEPVHLDSPAIAHQ FLLTGDTQGPLPLPLGLVHRMDPAEQAP WS*QGPKALFNSTPPTESLPAPWLSMAP VSWITPGPETTSRCRGVLRGVTFLLRRE GDHEFLEVPEAQEDVEATFPVHQPNYS CSYRTDGEALSEPSATVTIEELAAPPPP VLSTMESPPRSCITLGNKVTLTICVAPLSG SGISSLRGGGERAAGNPGGSTSPDRIFH LNAVALGDGGHYTCRYRLHDNQNGWS GDSAPVELILSDETLPAPEFSPEPESGRAL RLRCLAPLEGARFALVREDRGGRVHRF QSPAGTEALFELHNISVADSANYSCVYV DLKPPFGGSAPSERLELHVDGELAGHOR GRARVQCPSGPPVFLFPWASDGGALGL GSAPIAYPGGEQAIGGRGSGDAWNFLGF PTDASP
6759	14810	A	7469	3	1312	GEAGRGGSTGLGAGQGCATSQGLAARS SWGHRVGHQLGSRGPTRSSAQ*GAAA ADLQGAGRHSNDHNPPT*AA*G*NLPAE E*GGPRAGAPAHASCPTDPSAGEPGTGA GAARRWHQPGLCSPSGV*POASPGSSPR AQTQSPGAAQEHHEPRE*AAQAGERPA GGSEVGAGASGGPAAGTGDACGNPGPA AAGSPRGGQGSRAATGHTGCGAVQLPR PAPSGRG*KCPAAAAAQETEG*VRPTAA TLRLAGSGARRWCRPSASHHGPPDIPGG DSGGHPGSAPQP*AAAGPGCPQLPQEAG GSEPQA*RATGCLQGPGRCILGPDPEAP GLLPQHPRAGTGAGTAAGPGHDG*RA TF*ATGVRGPAP/EAGTSTKS*G*GSWQV QGTGPKWGLCLQPSPIQGPAATRPSPK GRAEQSSSASTEPSHPAPRKT
6760	14811	A	747	461	791	ESLQTGLTFTKSDEMDLLPHIGPCR*DG AVSGAPSSNSFPTSVAGSTRLAKERGDH HLRKQPRWEVHGAVRRRAVHRPFIFHLSR KEAACCLFPPPTLLPSRQQTPLPSK

6761	14812	A	7470	1	1987	MWEPCGSQGGDT/GVFGCRDR*GG*GAA GCAGRPSGDRGQWPHACGGGGGRGHP TSTGAPAGHGEEAASEQRLLSGGPLRPP GPH*ARRHVGPAGRGGLC*LGRREPQHR VPSRSAPAAPGRLPALPFLDEDKG*AEPR EAAPRRPRAAGHSPGHVSHCGEAPGGL DHLHLPQ/SPAGMGSEHDGRSGQC*PSR HTSP\PTRLQSPDPDTHPGGSSLPAPRPAL SCWARVFASLGDQPAFLGGHTGPPDAS GEPQHKH*PS/GPLSSSSFPGAPIQGRQRVT ESLPGTC*GMEWPTAALG*RGPRPVTAT PGTPGGAPTS\GFP\GCQAQKPEAGLVVA NGTMCCPAKHTWRSGBKIPITLISILPLLL LHGGAVSLGSPPGSALRPAPASLGPCV TDKSIPSLAQNTKYSPLD*ET**HLPECS RGWGSPLLVLHPLLGHILVSAHIPLPGYK ACPRPLNLLGRFGA\QGRGSLSRSSRG */PGPAPSALGVSGSPSSHPPN/GLYAEAH RMGFLPDSKSKNGLISKCKLTFHPQTSK PPAPISP*SKTSGGRKNRLPGLHSQQSFG RMPPGMP*APSVYLLPLLSHPLPLRTAG KPSSLPQPRSPSLVSSHTRAQQLSLVSP*G QPCVPGHTSTRQGLPPLHSILPAELPQSS FANRGIKASLRIRK
6762	14813	A	7471	2	353	DRKEERLRSRSGAAATRSSGGKGVAE WDPLPCLDPELWDQFDNLKNHSLEKFII SAKERTIEI\SYTKQLRNLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V ITLGSIKLSSLS
6763	14814	A	7472	2	390	PLDPQVRKIEDKVNKSRS*KN/LGLEDL GTYSVIVTDADEDISASHTL\TEEELEK KLSHEIKNPVIKLISGWNI\DLERGEVRL WLEVQKLS\PAELHLIFNNKEIFSSPNRK INFREKGLVEVIIH
6764	14815	A	7473	3	223	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMSYIYPLFKIKGIYDKSLVNIILNVE KLKAFFLRTGTRE
6765	14816	A	7474	3	1033	CPLPFSL*YSTCGEKQPM\SWRASAASP GQSAPSSSAVGCWKASCKQYVWGTPSY SYTNRFRRTPHSPGVWKACISRAG*PA RKNSLICLAGKTGALKDT\SGKAPVFPL CHRHSDPGGGFHCAELGTNSPLGRLL KGLP*PAAVPCPPGAPHLPQRRPAGRPT *FPPAQSSPPQSVWSR\SRCTRM\PGTGP RWGPAAGSWPATSLASGCPSWEVCGAT NP*APRLSTALGSCCPSPEGKRRPNTPA TRPPCVAG*APPPGHSRNGGLEKSSSF PASCGR*QSGAGPSRLDFPSSPSRLHSVP PGPFRFTSHPVQVQASSVSEKGEKPLRSYD PRR
6766	14817	A	7475	63	389	KNQEQESEETLPNLFYKASITLIPKLDTS SSSSSFSSSSSSSP*KPITHRNIPSSSSSS SSHQIQYIGKIIHHDQVGC\IPEHLIKFNI AA**EPSKNGDRRNT
6767	14818	A	7476	3	335	HASGKDRHTDQRNRIKNPETDT*YISTF* QKC/RLI*WRKDSL\VNKC*SNWA\SPM KKIKLDLSSSSSSSSSSSSSV*NVKLL GNNVGGNLQYRGLRVHTVDVKAQHI
6768	14819	A	7477	50	378	LEAWAGLSQVQTPSKFLENPSQSYRLTV PLRKHVVRPKKQHEIRRLA*VGNLSDFT G*/HPGCIRGLRPGHLSRLMDLGLGLMV KSMERDQRLVERAQRDQELLQALEK
6769	14820	A	7478	62	389	KRDPKRTFITPPVSGERQIRRGPTCKWG FLGLVGRGGPPEGEKSNLLWNPGPPLG PNIKKGPRLTTPSSSSSNFQREKFHPGGG APP*NPT/ILGRPGGPNKLGWGV

6770	14821	A	7479	18	373	RGEPPSPAPIGIFKSPKRGFPKTFPGGF LPKGKKKPGPIFPFGLETKEGGTPPNPF KK/ARVFLVFKPKAGSSSSSSSPNYKPIYL NNTDTKFFNNMLANRI*QCIKEVMQYDR TRG
6771	14822	A	748	40	317	LRVTAQWASHTLPDPVVGNGSGWKEK DRDSEWGWRDLKSKTWVEVEAEGGLS GDTFQWLPQGSSQRPGLPLVNQAGVQ ETKGAGPL*SPAPLPPGSPEGAQASGCSP VGAIGMYPLTGPLPPPPQPRSWISGPSTPI LSLCPSPSTRSQGFPPQGLEVCVTPIELLP EVRCLKIRECFPSFL
6772	14823	A	7480	2	1288	FFFFFSCYAVNAAGNEGNDTALSFPERS QSRLCGFSQNTLCLLPAPTRSNFPGSCR RQPPGSLPALALAAGDSPGEAGPPGEGS RGIQHTFP*IPRPRRVQGSQSSPSPTSHQ QFINGEGQTS**QNLGLRTQEFECNPR RL*VVRFRSLFAFFPLFAFHSPSPFF*GN V*ARLQGGQKMESLGAEGLHHRPRQGW RKTQKQAPSAYVGKNGNPAP/WFPPKV FRTGAAP*GFPNPISPKP*RHSLDLAKG RGPDPARTGTQLQSLAFLWPSRELITPG CHVLIGLSRLRGALFGG*GTAKRLSHK GRQSGP*N*PGRHTAPLIPSAASGRVRV GLQRNEPLAQNPTRLRLSSPLPGGIKVE TVGI**GVGMR/DLGS*NEVSAFIGN*ESR GSGSSNRMVFLPLPNARESPPSRFETVN
6773	14824	A	7481	3	352	QFSIE*KKRKIFPTQA*DKQRLNVQYKI LLVTRKEGPNKRGKPCS*IRKLNIVKTS IFPKLIDSYNKFPPNY/LSASLLELTSCILK LIWE/QNPFMKMQRARTVKTL SKKKNK VEK
6774	14825	A	7482	2	253	SMKKVERSKISILSFHIRKLEN/QLNPK*/R RRREIKIGAEINEIENRK*IEKINETKSYF WKISKPLAKLIKEKTQITNTRNRAY
6775	14826	A	7483	2	1114	WSHRDWICPASGFQMLNVGSVGQILRK KLMTYAL*LLQLTVWRDRLLCREGAP K*SL/SSLPESRRQSSEFEKAKTCQLFINA AVDSPAIDYHISLAQSALQICLTHPELQ EICCQLIKQTRRRQPQNPQGLQGWQLL ALCVGLFLPHHPFLWLLRLHLKRNADSR TEFGKYAIYCQRCVERTQQNGDREARPS RMEILSTLLRNPYHHSPLPFSIPVHFMNGI YQVVGFDASTTVEEFLNTLNQDTGMRK PAQSGFALFTDDPSGRDLEHCLQGNKIV KPSPFQEPSPTNSKEATLYKSKLCKKFN SGVFQNFNQSNLHDKKKKMQDFVKPIEF LIHNLTYTTFHIKERKGVSNNGDLSIRII RVDM
6776	14827	A	7484	4	252	GDVEY*SIYSLAPIRHWLRNGPRASTLW LFFFFFFFF/ETQSCSVTRLDCNGMISAH CHLRLPGSSDCPAS
6777	14828	A	7485	95	670	FLEGGWAHFFPPPKGSFPKPKEGFKTP PKRKKIFPSHPPLNLGPPDLLKGPP/HSS SSSSSPEVINIYCSPFREGHGRR*SKVSSW STEVNKPV*DKFPHTPSY/ATPCPLPQGY RTAVFSYSPPK/HMQSLPTFQKACSFYS FSHSDQSPTLVAPFFFFCLMRSSDKLM NDVPAPVFLPSFKGNHACSSR
6778	14829	A	7486	2	338	ENGWCWIATYGRKTGFLSLTTCKS*LK RDLDLGTETMEILEENLGEVLLDIGLGK/ NFMKTPKADSTEIKINR*DLIKLKS*CTA KKS*T*/SNRQSTEWKKIFGNYASDRTS
6779	14830	A	7487	117	334	LYAHKFNNLDEMDQFLQRHNTPKLIQEE /HRLTVIK*IKSIVINLPKQKA*GPDGFSGE MYQLLKEEIIYNVF

6780	14831	A	7488	325	353	CILKDRCR*LYAHKFNNLDEMDQFLQRH NTPKLIQEETDLL/SIK*IKSIVNLPKQKA *GPDGFSGEMYQLLKEEIIYNVF*RTDVE G
6781	14832	A	7489	3	458	KSREITTLANNQCMATESVDHELGRCTN SVVKYELMRPSNKAPLLVLCEDHGRGM VKHQCCPGCGYFCTAGNFMECQPESSIS HRFHKDCAS/QFNNASYCPHCGE\ESSK AKEVTISLKQTPRPWTPVPGQE*GSSLV GRADTTPGSGAR
6782	14833	A	749	2	333	QKRGKTLPDF*SDFG*QLNGRHTHFQ/HP VVGNPGSGWKEKETKGAGPLCYPPSHS KVGWGRGATSSVSEGGSQRAGHLP/TSPA AQQGLECRNTRLPKVRAVAVRLCYPPL GG
6783	14834	A	7490	49	457	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDTPISPETPGCFSSRRPM PTREPPKTRGSRGHLHHTPPGPGPPLQGL APRGLKT/RRPPSPVAPAGTPQGGKDQED CV*G*VALPGPPGRQEAYWSHP
6784	14835	A	7491	1	816	MDEAQPQEALGASDWQTCRSTQCLQRC KARSQSDHFKGELGVSSPRVHPQAARRP PPP/PRGTRRPP/PGPAHQPGNP*AASPGG RCPPGSPQRLAAP/EGHLHHTPPGPGPP/P PAGTPQGGKDQEDCV*G*VALPGPPGRQE AYWSHP*GA*A*APPSARL*A*VPASEQ* EGTEPLCRSVPGPVRRVLGAPARGGVCT GKAQAAGGPAELPAPTPKEGGPSCSPG LEGV*DEANGSWLPGQAGSLPLEG*TE ASQSDSPEIR*PRRTRPSARKPLSCFSRRP MPTREPPKTRGSRGHLHHTPPGPGPPQP GPHKAKTKKIVFEDELLSQALLGAKKPI GAIPKGHKPRHPVPDYELKYPPVSSERE RSRYVAVFQDQYGEFLELQHEVGCAQA KLRQLEALLSSLPPQSQKEAQAARVW REFEMKRMDPGFLDKQARCHYLGKGLR HLKTQIQKFDDQGDSEGSVYF
6785	14836	A	7492	27	445	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDPPISPETLSCFSRRPM PTREPPKTRGSRGHLHHTPPGPGPPVSLD REGVPRPGL*AKDLAPAV*GTPVFPTPRF NSRPRFPVAAAGTGAPRPQNRPP
6786	14837	A	7493	1	368	FQQNLTLSAHCNLCRKF*FSCLSWDDR HVPTCLDNFLYFW*RWGGFYHVDQAGL KLLDSSTPSAS/SFPKCWDYRHEPCTWP* KYSFLTEH*LLPVY*K*IAKPFQPKQIVKT FS*GCKNI
6787	14838	A	7494	10	504	EGDKGTPVLRGFSSVSGSWSRMPPFLL LTCLFITGTSVSPVALDPCSAYISLNEPW EGTIDHQLDESQGPPLCDNHVNGGAWYH FHGHGRGDAMPYLSFFTRKPLWEPTAPV WLNGSHPL*GDGIVQRQACASFNNGCCL WNTTVEVKACPGGYVYRLTKPSV
6788	14839	A	7495	84	250	NRIENPEIKLNTDSQLILPR*FNWER/DSL FNKCWWNWIFKCKTMKLDPFPIPDKN
6789	14840	A	7496	63	743	SSCLLAAFRGPAHASHC*P*SPAHSSKRPI HAQLFPLVASPGPEIPQFGFAR*SCCLPVP SPGPVLPSPVWVYSPIS*LKTTYFGSAPAQ HLAAVGLKLPQVKRSRPRSCCPGAFTG PATA*RWLPQAQVLPSPSLPRPSPCLTVA FPVHVTACYPTALTDQTLPSHWT*DKL IRLPASPGQSSCLTLASIGPGAESAMVCL GPSHAFLKTQATIWPDTFCFGPM
6790	14841	A	7497	340	368	VPTICQVMS*HFHPSSSSSSSSSSVINYY*/ FGLLLC/QVAHFYNSIDQMIQSQRPM LQSALAFEQIIKVNGLLI

6791	14842	A	7498	2	826	LVKKTCEVPLQAGRLYLDDHHQSKPFLKL HSKTHV*RCPLGIQTTPVTLRR/AFNLR PVLSPQQRVPVEARPRKCETHTESFKNSE ILKPHRAKPYACNECGKAFFSYCSSLSQH QKSHTGEKPYECSECGKAFFSQESSLIQH QRIHTGEKPYKCSECGKSLSARNANLTK HQANPHREEEALTCSECEKAFFS*LLSVL VQHQRHTGEKPYECSDCGKAFFRHSANL TNHQRTHTGEKPYKCSECGKAFFSYCAAF IQHQRIHTGEKPYRCAACGKA
6792	14843	A	7499	64	372	KLSFFHRESVNEIKKKTIDWENICNTYE* KPVTYK*FLQIN*KEIN/DQIEKWTKATN RQIAEEEIQIVNKHKRYCSASFRRKKQIKT KKRCHFSITGKNYKE
6793	14844	A	75	3	298	
6794	14845	A	750	444	999	HSLTATALTLGSLVFLHSSPCCAAGLWA SDLPSVSLPLTQRRWLPFPKP*KWLG* QRGPAPLVSCTPAPWFTQRRMKDGSIS HAPSPTRLRHPGVGGRSPRPLAWSPVGA GMYPLTGPLPPPQPRSWISGPSTPILSLC PSPSTRSQGFPPQGLEVCVTPIELLPEVRL KIKECLSLVSVKK
6795	14846	A	7500	2	414	RQGL/DSVTQARVQWSDQ/GSLQPRSPG LERSHLSLLSSW*FEISFRTLQQLVITGN ILGHQKITGTNHR*FMLYSSVCLFFEMES HSVVQAGVQWHDLSLQPPPLGFKRFSC LSLWSSWDYRHPSSCLAYFCIFGST
6796	14847	A	7501	18	73	SYPGAASVAPWSPGASPLRSSPELHLRL SSSASSLALAKNALSRAASPAQ/ALPSP SPLLWPLTSSPGRQASPVAPPSASNGT*W GTC*PEAILGLQSAQPPGAPPPH
6797	14848	A	7502	3	363	KTASPVQVKFCAGVALPNLKORPLREK AQQCI*PLLMAFRNTGRIPCFSCNIPVLP GQKHGTEDYWFVQDLRATRQIFKAIYLV IPDAYTLFMTLTSELYW/WSVLNLKDAFI CIPLSPES
6798	14849	A	7503	47	231	NCSSVFCFPGSQRVGSILGKSW*GWVVA TGVWLLNPLKAVGQEEYSLKMEGRPE VTCRHL
6799	14850	A	7504	1	3099	MGSCSGGERLGTSPKYSMGKWEFVAKE QCGVPCPVQLGTLRNDLSLEAQLHEYVK QGNVVKVKILKKGSQPHSPRVHSLFTE GTLDPQAPDCLMARETQNQDAPCPAPF MAEEASSPSTGQPSLCSFEINEIYSGCLIL EDDIEPPGAASSLEADGPNQVDELKSM EEELDKMEREACCFGSEDESSKAETAY SFDDWDWQNGSLSSLPESTREAKSNL NNMSTTEYLISKCVLDLKMIMQTIMHEN DDR
6800	14851	A	7505	2	707	LTH*IIHAGEKPYKCEKCGKAFNQFSNL TKHKITHTEKSYKCEECGKAFFQSSTPS KQINDGEKPYNCEECGKAFFQASNL*/ HKIHTGEKPYKCEECGKAFFQSSIFTKH KKIHTGEKPYDCEKYGKGFN*SSVLNTH TIILTAEKLYKPVRCDSASDNISNFSNHK RNHIGES*KCGECNKVFKWLSHLIIGNI HIGKISYK*EQCGKVFN*YTLLHRKSFIFE KNCRN
6801	14852	A	7506	1	681	IVTADQLLGMGWAAIRNQTMLNDEVI EQLWKCLDAWDKIQDDDKLPCF*QP SDGAQT*NRIPHNCPIFKDAAEKSY*IA RANDLL*NLMAEQVNPRL/CQVAICPIK GKIPPGDVLTSYIKVCEGVRGTLRTAM VMAQAMVSIRMPGQFPKCFCLCSQSGH SKRNCPWHTDRCSFQHQPKFFQQQAP LSTICPRCQKGNHWWAQCHSKFDIDGNP LRSLP

6802	14853	A	7507	2	342	STVKGPCSMCRTIHHVPHIMGFIFGVQG WHDM/C/KSINVNHSVNRMKKNHMI/S NDAEKAFDKT**SVSIKT/L/NKLEVKG MLYIIKVAYDRLPARIADD*RAESFPLRL GKR
6803	14854	A	7508	1	358	VFQSFHKHRNQKVPEPPPLSKT/AKNLFA QLAENIASCLDDSSCYGYKKANIRDQWP *EAKELMPQDNFN*LFPQTDATRSSIW/L LKTSIIKKYHVTHYEKALKTHEKELTCLR HDRVGTC
6804	14855	A	7509	2	681	
6805	14856	A	751	172	431	IGRPTKQGLGQWTAVWERMERTNKSRA WPNACEGPGAVGNYIAWASGLP*MLKT RAARTWVQAGVRESAQGFLNKNRRILE MGLSR
6806	14857	A	7510	670	1466	KKIRPFFQIFDGFISNVLVFAQSGFPCCLP VAPSVTS**LKAAVTAGLEVPSDVSDRA FEWLSAFPLDSPYSIHHPRRIQVFLKRE GSSRRWVLEPITADSDPAYSSKVLSSP GLEELYRCMLFVDDMAEPRETPEHPLK QIKFLLGRKEEEAVLVGGEWSPSLDGLD PQADPAG/SWVRTAIRLCAGPELGIDLS AVTKWWRFAEVSVPAAAGDPPGGLQTVV VYLPGLDHHAYFGRKWEFGPAKQKA ARGSSPNPGRHKG
6807	14858	A	7511	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6808	14859	A	7512	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6809	14860	A	7513	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6810	14861	A	7514	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6811	14862	A	7515	1	399	NVLIWEDCIAGQAEVLHDSYGIIDWSPK GMFSMNCTSQSCPWPHYVQLV*TERSD SRNDKKYKSSYYLETWQYSGPQPQMI WPAVGAKHKDLWKLLIAFDKIKIWEKG YTMP SQYNPNYILELVENNTIW
6812	14863	A	7516	10	225	YCNTIIVGDFNTPLSGMDRSSR*KT/NKE TSELNYTVDQSRSLTDIYRTFHPNNLMIHL KELEKQGQTKSNIN
6813	14864	A	7517	37	348	WKMGLPGRPQLPQLSQEKILSLNSPNV FSSSPLK***NILPKKKRPDCFTHKFYQTF KEEIIPLKTHQEFEKKEILLKSFYEGSV V*AAKL NADINKKTTH
6814	14865	A	7518	3	353	CRLGGLKGRSREQGAVIREGEDTLG/SET EAGRPAGSLRQQRRGRPWLPVPGKH GVPTGEEHWAGEPAGWGGSVSGQAG*A ESRLSSSGHSGQKGGAVMLLAADRRRG QRRRGSG
6815	14866	A	7519	54	284	NHKTPEENIGEKLVDIGL/NNDFLDMTPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMAHNSDKR
6816	14867	A	752	253	428	QASGVSDLQ*KLCAC*AQSQDLRGGGFR EARKTST*QPGFLLFCLLYSANKLQESV TFKDAIDFSWEEGIQAESAQRMTVYGE VMVENYQEPGFLGKYLFTQTRGGLP



6817	14868	A	7520	29	261	NHKTPEENIGEKLVDIGL/NNDFLDMTPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMANHISDKR
6818	14869	A	7521	5	2088	LSSPSQGRGADSA/PGEFSGTQLPPQGGE LVPQH LAQPHAVPAA/EVGPAWWPGAG P*TSPSGRGRPLCPPAGPPLPLPAAGPG ISHGQPPFMLLDGL/PGPPGGSGASGLPG SSALPRPRGEGVTPGIRGEGLRHTGA/G APSHSHSTCPSRRWQAGCPPTLTAPPPG WATSPPPESRCRVSGTSR*A*NPGHAA ASSGRWDRGPAAAGPRPG*AHPA*GS GASGSSPGPEGGRARGT*PCSTEPSPGH* STGPSPCPAGGPRGRLLPLPGPDQGRW APTSGIPLRTG/PKLQPTTSCPGR/KLAEG EAPGLMGVQVRQCEAQHTQRPVWLVV LQEGQDAVCVELEPVRVPAGPRGAADG RGCHRRQA/P*RAGPGRRLCSCCTAGAA GSFPPAPRSQGQGLLGLAPGTAAEQAA HRAEPPRCKMPA*/PGPCVSTTCPCVSAS ELGTPGSEPLAGR WREAGSSQAVGLAA/ GGGGC*DQRTPAFGGS*GAGKGLRGPPG LVTLSAVGRCASEPGGASGAAGRGRS GSPREPRVSGASRSPCG*AGCRRASSA GCRPRPGRA/GSAGEKADTYSCCRAAS/G RPERPSRPGARS*TPVRVYTA/GMVGGQ GLATPGSPCCCP/GPPGGRPRSRPE/SFPR ADPSGYRGLPADRHWSKGP*GPALPGPG RSQAWALLGPQHPRSPAPAGAGRGRAG HRAR
6819	14870	A	7522	45	301	AGHHHWKRGPEAPRHEMCPGSSKNQGL VQGLAGGWGTKGKILKGSSTSPGEPGS GQIHLKKAGTCCGGSSKDRGVRNYSGR LLRR
6820	14871	A	7523	453	704	AGHHHWKRGPEAPRHEMCPGSRSGSEG ATCFARGR*RPPGNSLNVSRMGTRSSYS CRRHSPAFLSWGKGRCHLCNKAHLLAG A
6821	14872	A	7524	3	543	TCCIQAAGTGGSGAPGLASVVGGAAPL WSSF*NSLP*QIRFALVPLPGCRAPGTFFA PLYSQWPFPGPQRWARSLARGEVG LAPHPQPPTWPGRHGEQSPRRHHGVGH HHQHVMALGADMRRGLAAVAALVAS* AGRVLGWCGRPARRAAQLGQEGAQGT VLALNGLFFPSRRHGC
6822	14873	A	7525	218	533	AARRAGRPHHPKTRPAQLATSAATAASP RR*GRP WGRGLGPAWRPGGRGAALGA QRCGHGVRAVPVARAELGAAGFGGAA GPGAARGQCPALLPGRVEPRAARGVRT TPRPGQLSSQQAQPQRRARAAYPRREP* HADDDDLLHGADRSSRFGEVEHPVQGH TANPSDGGPVQHQHGLPHRYHLHLV *HSRPSGPPGATG
6823	14874	A	7526	3	1185	GPRR*GRP WGRGLGPAWRPGGRGAALG AQRCHGVRAVPVARAELGAAGFGGA AGPGAARGQCPALLPGRVEPRAARGVR TTPRPGQLSSQQAQPQRRARAAYPRREP *HADDDDLLHGAGGVSVPRGAPARWA AGGVGRGRRRPLLPWPGCERSFSSSL*I* HSQICFF*SSLEQCGEWEGVYGDPDSDGG PVQQHQGH/PASQPLPEWKVAEVTGGA RSTEDTSWGKGAGGSS*EGGPGPPGPP GAGGLPGHNGLDGQPGQGPKEKGAN GKRGMGATG*L*RYGWHLGASFALL *AGHHHWKRGPEAPRHEMCPGSKGSFR ENGHTPSKPAQSSEGQ*LPHSPYQSGRW QKLLMGQGVQRTTHHGAREQVAVPRKV DLDHQDLREPAGCQDTTDWMDSLVL AQKEKKEQMEKEEKWGLQDNYEDMAG ISEELPLPCYEQAITTGEKAQKHQGTCA QCARAASEKTCURPSOLNROKASNNV

						QGARAASEKTGTHRPSQLNPQKASNYH WNYTAAMDRSYRIIIHHEHRCRIMMPIG LSWEVLQKCDSVLRPRQWA
6824	14875	C	7527	35	217	MXDSRGRXPARTYRESPGPXXRMXGR SREIARWPRRRPLAPLLHRLLPSPRGIC GGAA*
6825	14876	A	7528	2	342	RALPPPKDPSLLSSIGSYRVPAPESVEGPL /SPWERKQGERPLSCMS/GLPQLRVGGV RG**EPQGLPQDGDPAHTRCGAEPSSLD SLPQDGVQDAAAASFLHTPSQTPCVQRE
6826	14877	A	7529	2	440	PRVRPRVRQSSHLSWRCRVPPPPPTMCL SAHPAPGPDPGTSCESHVIPMTSIAQWG N*V*RGEITCLKSQEVGKS*GHGASCPMT GELKCPHCWG*TGPHQLPG/MSHMFVCI LRGLAGSPARTAARGFLEVAFFKGTYPE RKPLM
6827	14878	A	753	963	1497	NTALSNEEILVMALVVISFLSLTFFQLME GTRLNKLWGFIPRTL*FSE*TLSSIKAKL LTILTPSLKFNREVKNVCHFEVWFWSY HNNLIKMPFISMFTPLNKMKAFTFICK MTVNINNMHQSTIYAKGEEHLMGCYVN CKLRTACMAFAVKKKLLAFNMYFKIY SCLGENF
6828	14879	A	7530	3	471	RALAAERPLAPLLHRLLPSPRGICGGA A*PWERKQGERPFPVSQYLPAC/GASP PG/PLGTGRGHGADDAPRRTS*ISEVGSV SVRDPG*IEQSDGRPLIGHSRWDERGLR GLGFVTGK/PWIKGGAILPVGPSKVVGGLG YTGRGAGLARSLOQY
6829	14880	A	7531	2	1021	FFFFFSCETTIENTLIFFSGEVSNLILPIPVGH K*GL*GGVKEEGCGCVLGLRPAVGSPAG MAQPSAPGVQAGSSILEEGLEVLSQPRA PSRGSQGPVSPPSWKVLQQPVRRTPTPH ASWGKPTHASSFVGGLGAQGGKRMPLG GPGCRPAPGLGAHLYVVCPEFSAPIRGL RSGMVPLKKAATS*DTSGSSPGLGEPASP QLHLFN*SLRGASSVPLSTASPPPEPGLR TQALGRY*ETGKWPFTGLLPLRLSGPST DSGAGTR*EPMEERSEGLG/ERPARDPP GSVPTCGWRGRGSPGTCG/LPGQRPLGR ALRAAKTRPGTCRATDRGVPPGLPRLCR
6830	14881	A	7532	40	403	QWHRLAACSNLASAVSFRIFLYYGERRP SGGARPMILTSPSLTAWINPLSQLL*YL AAEQQLHRGPRTAPVSGAE*RWTFI/ IARTHCLRRGQGRQPPVSGATGAPSFPL QQPMPRR
6831	14882	C	7533	182	289	
6832	14883	C	7534	50	223	MEQLCTKVRRFKITLLALILXXXXXXX XXXXXXXXXXXXXXXXXLFSLYEWYPCH LK*
6833	14884	A	7535	3	398	SNLASAVSFRIFLYYGERRPSGGARPLLT SPSPTAWINPLSQLL*YLAAEQQLHR GPPRTAPVSGAE*RWTFI/IAHCLRR GQGRQPPVSGATGAPSFPLQQPMPRFT

						PGASSSHQEATKSSTREF
6834	14885	A	7536	287	568	CLRDGSPEPSCGLHCHCPACQ*PTPHPHY KHRPAGESIPGNTPMASRKRSPASPTSRL RAPPALILSFLCLKMGTLPHASRGCWKE RSEIVLK
6835	14886	A	7537	574	1266	SIPCPSSSFSTWLQSSRNFTEDILASVLISA STQSAQSRSPQNQNLCKGGSQAAPPASS HPISSHGWGLCLDDPPAKDIIDFPLVLPGI PYAVSHQCRLQYGAYSAFCEMDMDGDSS LISPWAKYPKQRPQGQVFIRVPKKHMQK GSACPLWPVRGKSLPVKMHNPGLAGR WKSS*STWT/QS/RSCGLHCHCPACQ*PT PGPHHKHRPAGESIPGTTNFCFEKEACV PYFM
6836	14887	A	7538	1	785	NRQLSCGTALSTTGGIYIGERSVRVWGH RFHCLGNESLLDNCQMTVLGAPPCIHGN TVSVICTGSLTQPLFPCLANVSDPYLSAV PEGSALICLEDKRLRLVDGDSRCAGRVEI YHDFWGTICDDGWDLSDAHVVCQKL GCGVAFNATVSAHFEGSGPIWLDDL CTGMESHLWQCPSRGWGQHDCRHKE AGVICKFTAFRLYSETETESCAGRIEVF YNGTWGSGVGRNITTAIA/GLCCR\HLGC GGRNGC*PPCIHGNTVSVICTGSLTQPLF PCLANVSDPYLSAVPEGSALICLEDKRLR LVDGDSRCAGRVEIYHDFWGTICDDG WDLSDAHVVCQKLGCVAFNATVSAHF GEGSGPIWLDDLCTGMESHLWQCPSR GWGQHDCRHKEAGVICKFTAFRLYS ETETESCAGRIEVFYNGTWGSGVGRNITT AIARIVLQATLAVGEEMDANPSPL
6837	14888	A	7539	1	1113	
6838	14889	A	754	1	363	WRESPHSARPRLEPQCYDLSSLQPPGLK* CSHISLPSSRDYSCCATMPS*IFCVFFGVE MRFHVAKAGLKFPGSSNPPASGIPKCW DYRCILGQFSSFEAKPRMLIFTLFIICSGH VMMS
6839	14890	A	7540	1	214	VAFFKSAGASVQEKQAQLQEQVKEQRV CCQRLAHPVASAQKEPEAARGPGAP/WA WGRV*QLYGPPEGEGRP
6840	14891	A	7541	3	141	
6841	14892	A	7542	39	210	
6842	14893	A	7543	72	353	QRCPPGGHIYSHKFSFNDSVLPGTVCESP QPNGPGFDPTVWQWGRPIYPHRSALRL QS*RQSGSP*VCLAGSLLCCPWRLGHG LCQAHPGQ
6843	14894	A	7544	5	726	AAILYSGRLSSQPVVESIHPTYDTSTS GTVKIPGAEGLRVEFDRQCNTERRHDPL TVMDGVNRIVSVRSGREWSWSELRI GDELKWKFISDGSVNGWGWRTVYPIM PAAGPKELSDRCVLSCPMSMDLVTCLLD FRLNLASNRSIVPRLAASLAACAQLSAL AASHRMWALQRLRKLTTTEFGQSINR LLGENDGETRALSFTGSALAALVKGLPE ALQRQFEYEDPIVKGA
6844	14895	A	7545	441	1009	GLSHGRNTGPLTTSQASTSPRGNNPRAC VARTRVGVPATELLWMEEMRCVQLFCY SKARSQCSHQG*DV*VFYQPACWVSDT WHYLQPLTDSG*YA*KLS/D*VMSGPILA TGPCTSHLA*LLDSEPLERSVSSFCWV RLLGKTSLLCCVGLAALSSSEIFNCLGVF VWNLASCLCGSACCRVFLRDT
6845	14896	A	7546	59	378	

6846	14897	A	7547	31	302	KGRRVLWWGDKNHERSWHKGVMGQR VQDRQKRKLCQLMGKKRSQRA*ILSGTE HLHVHSHLLACQQQVSTGRALHLLP*RI WRARAKNEQ
6847	14898	A	7548	1171	1731	SPRWSAPRSPSGAPSDASCDGLVPMNGR KMACWPVDIPKTDWSPNPWQEKREIVS SEDAVTPSAVTPSAPSASARPFIPVTDDL GAASIIAETMTKTKEDVESQNKAAAGPEP QALDEFTSLLIADDTRVVVDLLKLSVCS RAGDRGRDVLSAVLSGMGTAYPQVAD MLLELCVTEL*NPRSRTP*CFSCRACDEE VSLALECWEPEELPRTQSPALTTQRAQN TMNKLNFHNRVMQDRRSVCIFLPNDESL NII/DKCLVFSWGDGDFGKLGRGGSEGC NIPQNIERLNGQGVQCIECGAQFSLATK SGVVWTWGKGDYFRLGHGSDVHVRKP QVVEGLRGKKIVHVAVGALHCLAVTDS GQVYAWGDNDHGQQGNGTTTVNRKPT LVQGL*GQKITRVACGSSHVAWTTVDV ATPSVHEPVLFTARDPLGASYLGVPD ADSSAASNKISGASNSKPNRPSLAKILLS LDGNLAKQQALSHILTALQIMYATDAV GALMPAAMIAPVECPSSFSSGAPSDASA MG*SP*MGEK\CLLAC*YSENRL\SPNPW QEKREIVSSEDAVTPSAVTPSAPSASAR FIPVTDDLGAASIIAETMTKTKEDVESQN KAAGPEPQALDEFTSLLIADDTRVVVDL LKLSVCSRAGDRGRDVLSAVLSGMTA YPQVADMLLELCVTELEDVATDSQSGR
6848	14899	A	7549	2249	5398	KCHLRAGRCRDVTAIFWLQSSFMQLEE KADLRKSITFYQNQGGRAKDAALGGGH HQAGAQQGDEGEAAGAAADGVAAYSN YNNGHRKFLATAQNPADPGPGAPAPQ ELGAAGKHGGLPNLRLSFKLALIRDMAI LPFQWNLISFNAVLGLVFSWGDGDFGK LGRGGSEGCNIPQNIERLNGQGVQCIECG AQFLALTKSGVVWTWGKGDYFRLGHR SDVHVRKPQVVEGLRGKKIVHVAVGAQ HCLAVMDS
6849	14900	A	755	1	433	FFKNFYRINRDSYYKAAKFFPVLCISSFH SYCSTLPQAPLPQAWLNLRRSSGVFLLLI SIVRADVPTPFQILGLILEAPPSQSYFLPFS SMDGLMLHPNRKVGQLTFSRPGEVAHT CNPSTLGGRGGRIA*GOEFETSLGLIS
6850	14901	A	7550	1	609	AAATTTTKLAAARQPLPGGGGESAVGA GAGREVFYILFATASAKRGGGRKRTPG AQSSGR/AVLPSLPGPPGRFLAGVC*GSGG PSPFSSPPPNHSG/Q/PGAGGEPGNRGPKM GVLAYSLLHL*VPCGVSRNTLPAGDGNPV P*SPFLSFTWSP/VP*PWG/ANGPWWADP PPSTHTVP*PSGPPGASGAGPPPSWPRPA KGFAPPRGL
6851	14902	B	7551	222	360	XAVLALRPWDVEAEQFLEVSFLLFFFLFS DPRPRDRLRLLERLREPT*
6852	14903	A	7552	1	601	RDTSRNCASASTSQCRKASTAPGAEG/DGP QASGRGGAVTTRGSRASSGRGRSV MPL CSRA*DVRARRRRSQARGSSGKLHLCSG KPLRKRSRSPSRVPAPGQSRGRRFTSSPP GFPASPSPCITERSRQKARRRTRSSSSSS SSSSSSSSSSSSSSSDGRKKRGKYKDK RRKKKKKKRKLKKKGKEKAHSRQSIIR
6853	14904	A	7553	42	384	LKSAALSHGGAKQAGDPNLHPLPLRRD WAGPETNPRGKGHOHPSGFPLAP*NLPR LGRQSSSTGLGQRPSPGKQPSHLEGQA VPSGRLAGEESTQDGRGTSQTDAGGWM AGM

6854	14905	A	7554	1	713	AKGAGLEARGAMAHVGSRRKRSRSRSRS RGRGSEKRKKKSRKDTSRNCSASTSQGR KASTAPGAEASPCITERSKQKARRRTR SSSSSSSSSSSSSSSSSSSSSSSSSDGRKKR GKYKDKRRKKKKKEEESLKEEQRKKA EAQ/RGRASSASVDP*DGHAQAY*REM /DEGPKRKS*PKNDTERSTSQTQRGTAD GHCQMOSDGYASREGPPHGQGPDRQL AAQPGQVSGCQWEA
6855	14906	A	7555	2	642	HALTTAFNIVLEVLVSAVRQEKEIKSVI GKKEIKLSLFTDDMIVYVEYPKIDKNA/L LEIISNFTRVVGYKVNTQNSVTRVYHQ *AS/EYLLKKILFALEPPKVEYLGSLTK HAQDLYEKNCKTLIKEIKELNKWREILC G*KYSVFKMSVLLNFVYRFNAVPIQIPVS CFVGI/EQT/SLKFIWKAKRPRIANSILIEN NKVTGLTLPFFKA
6856	14907	A	7556	3	577	TSNECGKTFRHNLSVLVIHKTHTGEKPYK CNECGKVFNRAKLARHRIHTGKKH* KYEEDKVYIVNQVLKDRRIHTGEKAY KCKSCDKNLGRDShLAQQTRSHTEKGP YKCTECGKAfSGQSTLIHHQAIHGIGKLY *CNDYHKVFSNTTTVSNHWRIHNERF*K CNKCGKFFRHCSYLAHVHR*THAGE
6857	14908	A	7557	286	336	GL**NTTS/PKISTEYISP*AKPPVMRGD SVLYHSDYDEEEWNRVWANVGKSLSCS IAMVDKLIERDGGSEASGGINDGEKERSL TDAIPSLPREDWYEQLYPFILTLKECV
6858	14909	A	7558	2	246	RPLKHTLVTCDKGGL*FEPFVSG/PPRC A*GDGTPKPEVPFIGTATFYHLPTAYGC MLTST*RKVEETELDDFYDGNRRGR
6859	14910	A	7559	3	348	GWRLVRPLFMGHRQPVISGLQPEQLHL KL*FLCSGVSDCASFPV/QSPEPKVVFAK EQLARRKLQAEAGASATLSCEVAQAQT EVTWYKDGKKLSSSKVCMEATGCTRR LVVQQ
6860	14911	A	756	362	567	PAPTPGTWDRHKSPLANFLYFY*ROG FHHIGLAGLELLASR*STHLGLPKCWDY RCEQHVOPENIF
6861	14912	A	7560	16	220	HREMKTGNDLKILQKVNKLWHLTYTAY *KRAIKKSKLLVHTK/TWVNLKGVVLSE *SQSQRVKYWSTRP
6862	14913	A	7561	204	868	KGNQVSHEYSWKFRTLSLS*KQF*VLKRA YYRRAVKLVNMSNIAEHGPFMKTGECL RCMFWNNGCIHFAMSKHNLGIFYFKK ALQEE*QCLCTAPVQVALIQVKNFQGRP MCTLLNPIRGYELLYNCGISLLHIGRPL AAFECLIEAVHVYHANPRLWRLAECCI AANKGTSEQETKGLPSKKGIVQSIGQG YHRKIVLASQSIQNTVYNDGQSSAIP
6863	14914	A	7562	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTGRIF ETKFLSQIESDRALLQVRAILQQLGNS TCDDSLVKTVCVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTGVVDGTLTY KLHPHFSRIMHQTVKELSPKCNVSFLSE DGSGKGAALITAVGVRLRTEASS
6864	14915	A	7563	77	2246	
6865	14916	A	7564	1	475	HIKNMTFIYFSSFIFCFPPRWSL/DSVAQA GVQWRDLGSLQAPPPGFTPFCSLSL/LQS SWDLQAPRHRARLIFYFLVEMGFITL ARMVSIS*PRDPPALASQSAGITGVSHRA RPETYNFCSFIIISLPVEPEARKMTKNSD IGEWINLGTCLIV

6866	14917	A	7565	3	362	SAIIV*DINTPIMGGTTRQMINKEIEDVNS AINQEDLLVYRTLHTAAAEFTFFSSLHE VSSSDMMLGH*TSLNKF*SIEIIQNISDH KGIKFEINNKEI*KIHKYVEISSTLLSKQG
6867	14918	A	7566	188	1055	VIKAAEGDSGSAWVLDEADPTGGPGLG CRGTKYLLRSGAGGLSD/GGPCGPGTDL ALSPKPPGLHGPPSPALAG*DLSRLLP AHSENWPGAAGGGSHRA*VGS/ADQAD NDEGNKNDPGRPQAQPSRCRSLGPATG RSGWPYGSP*PTWGQGPVSTPREGPAGV RIEAKGKS/NVGGTGGMAPSPSRTCNLLS LPKLSGVV*EAWNPGRADVHIMHAVGLI KTSHEWLDPPADSQAGSCGASGQEPQPA ASGSAAWRRCSQGGGLRLRHQQQEEGP SSQHVGVGCVPCGG
6868	14919	A	7567	2	380	AR*LFSRVNHMVGHKLSLNR*F*KIDIIQSI FYDHNSMKLENNNKRKTGKFNLW/RII* IIYL*TTHK*KKKITREIEKYLEMTENRNK TYRNLWDAKVVPKGVEFIAIGASL*KG GKSPIQVS
6869	14920	A	7568	1	370	GTSAWPQYKLDNDSK*PENGTFEFSILQ VLDNSCHKMGKWSEVPDVQAFFSHWS LPSLCSQC/GLIPNLSSFSFWSFG/PPPQV PSP/TEFFSMDSSDLPPSPQAAPRQAEPG PNSHLASAPPY
6870	14921	A	7569	3	369	HEVKTMKILEENLGEYLLDLVGKDFINR T/PETIS*NKIYKFNFIKIKNFCSLKDILKEI NRIDWEKIVTKHSDKGLVSRIKKFHDV /YKMRTOFFPPKDKDLGRYFTNKET*MV ASGHLKMC
6871	14922	A	757	204	389	DMGYDVTRFQGDVDEDLICPICRGVLEE PVQPCQTKVICILGQV*GEAHDYHAPYC EHAF
6872	14923	A	7570	1	2722	MGSAPVPSQACLEALLIVPWGACGVSQE EESPAEGSKDEPGEQVELKEEAAPVE DGSQPPPEPKGDATPEGEKATEKENG KSEAQKPSEKAEAGPEGVAPAPEGEKKQ KPARKRRMVEEIGVELVVLDPDLPEDK LAQSVQKLQDLTLRDLEKQEREKAANSL EAFIFETQDKLYQPEYQEVSTEEQREEIS GKLSAASWLEDEGVGATTVMLEKLA ELRKLCQGLFFRVEERKKWPERLSALDN LLNHSSMFLKGARLIPEMDQIFTEVEMT TLEKVINETWAWKNATLAEQAKLPATE KPVLLSKDIEAKMMALDREVQYLLNKA KFTKPRPRPKDKNGTRAEPPLNASANRA FPSPLTPWADQNVLSTVSPYPKILGKGET MVVPRVFGRMVGKSREAVAQAMVLEM FREEDYYNDDVLDQMGASILGVEGPRR HPDEPPEDEVFELFPMFMGGLLSAHNRA VLAQLGCPKLNDALENAQAIIKKLGLK GRQVLPPSELLDHLFFHYEQNRFSAE VLSSLRQLNLAGVRMTPVKCTVVAAVL GSGRHALDEVNLASCQLDPAGLRTLLPV FLRARKLGLQLNSLGPEACKDLRDLLH DQCQITTLRLSNNPLTAAGVAVLMEGLA GNTSVTHLSLLHTGLGDEGLELLAAQLD RNRQLQELNVAYNGAGDTAALALARAA REHPSLELLHEVQRNLNSWDRARVQRH LE/HP/SCGIWKIAGVPPLILGARPSCEW RARAPSKSPLRRCPNSHPEPASVM*PA*T NLSIPWCCVASSLLRRCGSQSL*PSS/HPA AVSMETYHVTLTLPTQRGEEQVELSTIE ELIK/VP*SAPSQP*WSTSGLALPQEA WY PVRSH*CPRLSQSPDLTGYSYGSFGHL TWEMSWKAPRNCV
6873	14924	A	7571	2	394	

6874	14925	A	7572	1776	3257	TNLSIPWCCVASSLLRRCGSQSL*PSSPPL PSPWRPTTSL*HCHQHREVKNKWSSPQL RN*SRMP*SAPSQP*WSTSGALPQEA YP/REKPPMMPQAQPAIPRPNRLFLRQLR ASH/CGK/WSWKAPRNCV*LNSTTPCS RSGPSRGLDPRWSGQKTWHLLGSQA* ATTPGPLMEL*/ELFNPDACGRRVQTVVL YGTVGTKSTLVRKMVLDWCYGRLPF ELLIPFSSSLCQLVAQRYTPLKEVLPLMA AAGSHLLFVLHGLEHLNLDRLAGTGLC SDPEEPQEPAAIIVNLLRKYMPLQASILV TTRPSAIGRIPSKYVGRYGEICGFSDTNL QKLYFQLRLNQPYCGYAVGGSGVSATP AQRDHLVQMLSRNLEGHHQIAAACFLPS YCWLVCATLHFLHAPTPAGQTLTSIYTS FLRLNFSGETLDSTDPNSLSLMAYAART MGKLAYEGVSSRKTYFSEEDVCGCLGG WASGRRRSFSLHIFRSGWP
6875	14926	A	7573	201	1436	PCDPREYP**ATSPTRRSWPWSISHPRPG S/HPLALSQLFNPDACGRRVQTVVLYGT VGTGKSTLVRKMVLDWCYGRLPFELL PFSCEDVSSVGRAPASMCQLVAQRYTPL KEVLPLMAAAGSHLLFVLHGLEHLNLD RLAGTGLCSDPEEPQEPAAIIVNLLRKYM LPQASILVTTRPSAIGRIPSKYVGRYGEIC GFSDTNLQKLYFQLRLNQPYCGYAVGG SRVSATPAQRDHLVQMLSRNLEGHHQIA AACFLPSYCWLVCATLHFLHAPTPAGQ LTSIYTSFLRLNFSGETLDSTDPNSLSM AYAARTMGKLAYEGVSSRKTYFSEEDV CGCLEAGIRTEEEFQLLHIFRRDALRFFL APCVEPGRAGTFVFHRRARHAGIPRCPLH CAGFAQDDPAKGGQSG
6876	14927	A	7574	1	376	PFLPPYMKINSR*SKDINVNFKSGSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSPL*KKNTPIKKVWKDMDRPA
6877	14928	A	7575	288	468	KAEAGGWLEPRSSRPAPWRREAGAGQSP GPG\GRGCSEL*LCHCAPAWTTE*DLASK KKKQK
6878	14929	A	7576	1	378	YRKP/TADNIINGERLDAFPLRPGTRQG/T PFLLLLFNIVPEVLVRAIKQDLAETHIIVI*IR KEEGKLSLCTDDMIFYVENPKEFIKILLE QISSQVAEYKINIQKSVVFLYTWNEQSK YEIKIISRA
6879	14930	A	7577	840	1093	QHKNLVL*SGRR*LLSQEES/GIFFTLVI TTFCWER*NRRILSQI*RMTGARIHFQEP VIPAPWEAKAGGSLEIRSSRPAPWPTW
6880	14931	A	7578	254	701	KTGKEGPVRWLMFVILAPWEAKAGGSL EVRSSRPAPWT**NPIS/KNSKNIKISLA WWCTPVVLATEEAET*ESLEPGGRGCSE PRSCHSTPAWVIGAPSQKKKKKEKQARR SWLAGHSGHLHYASYAGRCGRVGGLE PRNSRAAWAT
6881	14932	A	7579	12	154	CLCMSTCMCACVCSVCMHICVDCVC /CVCVCACAYI*LRVCVLVCVFLYVCIFV SVIVCVMCMCVRIYLAFFHKSLLLK
6882	14933	A	758	381	1335	DMGYDVTRVQGDVD*DLICPICSGVLEE PVQAPHCEHAFACNACITQWFSQQQTCVP DRSVVTVVHLRPVPRIMRNMLSKLQIA CDNAVFGCSAVVRLDNLSHLSDCHEHN PKRPVTCEQGCGLMPPKDELPHNHCIKH LRSVVQQQQTIAELEKTSAEHKHQLAE QKRDIQLLKAYMRAIRSVNPNLQNLLEETI EYNEILEWVNSLQPARVTRWGGMISTPD AVLQAVIKRSLVESGCPASIVNELIENAH ERSWPQGLATLETRQMNRRYYENYVAK RIPGKQAVVVMACENQHMGDDMVQEP

						GLVMIFAHGVEEI
6883	14934	A	7580	139	350	AIMAPNFPS*VKT*SQEDGQTPNRIKLKK STSRHII/AEN*/LAK*NILKAVREKWLT CRRTVISMTMDF
6884	14935	A	7581	17	245	GG*GCSCSEL*SCHCSPA WVT SKT LT QK KNPQF*QVV*NI*IPCLLD FSEFGLFLPKS YCYQCKVTLQCSKSL
6885	14936	C	7582	82	300	MLGIFEG LQINQLVETGLKRWLR LNSF LKRFCYLLKSLSRSSRTTTTAFVCDGR WIMQIPGSVLPFPQCW*
6886	14937	A	7583	1	772	KENLITFPRIQISKDDFRYRGAIARKRI RLGRKYVISHKEEVPLCIHWDISKQASLS DSNVEALKKLA AKRGWEVTSTVEKIKIY TLEEHDLVSVWVEKHV/VEVQHI*LIRLL SDFTKRPLWDPHFVSL*SHRLG*VKDDQ LYHITCPILNDDKPKDLVLRHEGKPLK DGNTYHS/VAVKSVLPSPVPPSPQYIRSEI CAGFLIHAI*QQFMHSYLTICLLGILPY FGWEILGGLGPKSIGRKQQLVYSS
6887	14938	A	7584	3	307	RFTEHHRTL TGEKPYECKE CKRLSSNT ALTQHQRHTGENPFECKE*GKAFNQKIT LIQHQRVHTGEKPYECKASGK/AFSWCG RFLHQILHTQKTPVQA
6888	14939	A	7585	1	374	TGVTPAATQASWTPPIDGPTTQEKL S*A NTAPGTEGEQQVHGEKKEDPAVPSAPP* YEESTSGEGRKAWAFPPAPTGEFHPNW AYVDPNSNSRYDNGVPITGDHEL*TTFS WDDQKVRRVFVR
6889	14940	A	7586	1	512	
6890	14941	A	7587	1	399	FFFFNYITRYNKHRYRYKMSKKRCHKIF QMIDMLNAASCAALGRHSRWVLGGAH PTPP/GSAQAPAPWSHAMGARTLPPRPFR SFGHSSATPKVSPSAAMPTEAQR/LPGC GPGSDFAGHPQC*PPQVQIPTSC
6891	14942	A	7588	49	430	KWWKVDCVGDML ECASIGRSEAFKTSS FQFSLATSEVCGHSSATPKVSPSAAMPTE AQ/QTPPGCGPGSALLGIRSADHPKCRSP LRVPPPPRSTSKVLAPFLASSDHLEHTCS SQVRLPAAVRGAST
6892	14943	A	7589	467	1518	LANCRCVPGGHWQMVMRELWMWNV EEEEHEVGICTWGGQHCGCPAKSLPGPH PGGVSA PQSASQLMVKLLVWQKSVHKL RKVSATSSIAVYPCPGQSSGGAESPAPGP GLAGWSHL CGAALAEVQAAPVSQA AVS DASLGPEWSQEGCRPGLTSGQHGGRDG R*RGSRQGD P QSPSPGIPASSAAL*VGL VLVKWRPVHKAYDPVPEASPLSANFRN PGPAEAPGPMGKTKGRGSAGGAIGAGS AGLAPPPRSSQGAAGIGQ*PGLPEEAVHP CKGSCPASSLSAGTPRAPPHPCLGPRR QGPCSHGVTPGCRSLG*AGGVG*APPRT QREWRPRAAQEA AFNMSII
6893	14944	A	759	1	1236	
6894	14945	A	7590	296	423	MVI*KL/PYKKSQGLGTFTDEFYQILKEE LISILLTLFQKIQKE*VTYKKSQGLGTFTD EFYQILKEELISILLTLFQKIQKE
6895	14946	A	7591	3	167	VYTKILRADRDMLTGYPCCSTGLLTADD ***DNTLEV/IALRRGPFFYLEGLDLSPK



6896	14947	A	7592	19	406	PLQELGGQSLSLHYVGGRAPGPPAPGHP PVQSLQRPCVPTQQLLTPEFWCPAL/RQQ Q*GHRQGTGPVPTGPPPLKGWQQGPP QKEWQMRPKAFGHHPGGLCQSLGGAPR RWNRDYQAGPRQGCCGALM
6897	14948	A	7593	2	3532	
6898	14949	A	7594	3	300	KGPWKQENVEAEASMVIAVPEPFGGAI GQESITYHNGDKYLAIAPIIKQSTIVCHN RVDP*WPQDTLLGDMEGRLFTALQKNP TEKKIPQALQQAN
6899	14950	B	7595	1	819	MARGSAGLVLRGRLHDWQLGSGHSAP GMLGQVALAGRTELAVPSLDTPGGGEQ RASDLRSLSSSHESDHTVRAAHSPLPAE ALTRSLPCLQNVAVHRLYIKCQLDFGGD SIAVGTPWYPMVWIPVWIPVWIPVW WMEHTVLIHLPVGGHVGGSSHLSAPVNN VCGNVAEPPALCGTKASKPPLTPPIRS KAKFLGGSVCLGRHNKLSQTRWLKQQT FISHDPGGWKSNIKLTRPAQDLLMSVCM NCNTHGSEDMDVISHLIKIRLKP*
6900	14951	A	7596	2	3235	SPASPAGRSAAHGSASPSGSPHSWCTV GRSSCWSSPSP*ASSGSGTPPTQPGRC G*MRRRPAGGAQAFQLKGKKWRRFGG W*PRWEAGCFQGEW*GATDSRTASNQL GPPHLQHLHINPPARQPPAFNRVVKQAP WRPQARAGAPGKPDQDAHQRVLQNG HLGAQTQEEVAVTLGWVPLVVLRL LCGTAPCAGSARSPRGELADGGDHSVE PPDGIPLDG/EQSGSGMSGALPGSSFLCP RRCRP
6901	14952	A	7597	2	1065	HMILCVENSKDSTKKNLLDLINFSKVA GYRINIQKSMALFTNNLAESRKQCPF /TDNIKHLRIHLTKMKVHQYSLHTENH KTLMKYIEEDTNK*NDIPCS*IGRINVVK VSILPKAIYRFNAIPKISSAFFTEIEKIIQF LWIHKRSQITKAILRKKNPGGILPNLNY YKTRVIKTIQYWHKRYTGQ/WK*PEINPN MYG**IFDKSTKTK\WEKGSFNK\WC WDFITCKRMKLGPIYITPYTKINPKWIKD LNVRT*SHKSRKENIRGKAPWTLGFGQC FLGYHTKTSYGYSNNK*MKLYQSKLL HRTKTINKMKRQCTDKEKIFANHISGKV LIFRI*EELIQLNS
6902	14953	A	7598	3	333	TLLPEIQAYTQEQWLGSPEEATAAERL QQESAGPGLQMNGGLVLGAWVCLPP/SS RPPAEPSTGAQSWVGG*EGPGGCGKVM VTGGSLLVLAWTAESEISSHTCVLRIVS
6903	14954	A	7599	252	684	HLFRQLFLEVLMSLQSPCLVAHSASRWC TAPVTADAPSLWRALALWLWLAHQGP GTGWVPLSLRRRSASRLAASPSNPSPR NIH*SPQRPVCSRGPSGPATCPLGLPRTSP GATRPGPVSPSPRSGIAAAPGLAPAST PP
6904	14955	A	76	189	442	KTMRSIRSFANDDRHVMVKHSTIYPSPE ELEAVQNMVSTVECALKHVSDWLDET KGTKTEGETEVKKDEAGENYSKDNG*R TL
6905	14956	A	760	55	792	GRAGACSLIDTAMSIEESSDVIRLIMQYL KENSRLRALATLQEETTSLNTVDSIESF VAELKSGHWDTVLQAIQSLKLPDKTLID LYEQVVLELIELR/ENLGAARSLFETRPDP MIK\KQTQPERYIHLENLARSYFDPRE AYPDGSSKEKRRAAIAQALAGEVSVP SRLMALLGQALKWQQHQGLLPGMTID LFRGKAAVKDVEEEKFPTQLSRHIKFGQ KSHVECAPRAEFVQRRSN

6906	14957	A	7600	156	888	FRSSVSPGSGPPFSVSVTGS GCPS**HSGR PGVLVLKLP GQS*ASLPPAFPGGSDVAA GRGLSSAADCFSLTGLGLATPVLF LT SN LKLLQESVPK*LNSASS/PGVPRP*LQMH RLCGGAPRSLAVVGTRPGARNWLASAFS/ VGGGQLLGLQHPLQKIPPSRNIH*SPQRP VCWKAGRRKTKPRVDLQALETCPLGLP RTSPGATRPGPVSPSPSRSGIAAAPGLA PASTPPLSPGPTPLPP
6907	14958	A	7601	231	457	QWLSLLPLGLGEDTKSLRANTS NLELHS QATIWEEGGPTSSSLWRPFNFP GSPTNRN PKLMPAVQPPHPSG*TPSVTWLHISWR WSP*GQSKASLPLPLPWNSTCYPQTNKE TKTQSALSTPSTNCNQPKERRPVCLPWV PPTSCSSTDREPPAWAHSTDPPSCDGTAK VPSSAGSKLGRKHPRAAVGSLGASSHN LKAMGEEPTL/VTALRGSKVTTV/SETTR PRKKLSTDQYT*APPTGSHPKASTPKIRC CVSPFSRCYEEIPETG*LIKEGLIDSQFH MAGEPSGNLQPWRKAKEKQAPSSQSGR TE*VPAGEMLDTYKTIRSHETHSLSREQH GENHPYDPITSTWSHP*HVGIMGITIQGEI WVGTSQTISLTYPSP*NQTKEVSNK*RP PYGRREDQPLPPCGGLSTSLVPQQTGTPS SCQQCSRPIPVAEHPQ
6908	14959	A	7602	2	289	LACYSPFPGGP/PSSPPPRAGGSNPPGPPG LTPFPKK/AKKLL/RPSSSPPLFP LGRVG PGDSFYPGGEGFP*PRVPIT*NWGFPPPR GTKKKLPF
6909	14960	A	7603	3	805	DRVSLLLPRLECNGAISPCHNFRRP GSSH SLASASRVAGITGVCHHA*LIFVFLVEME FHHAGQAGLELLTSGDPSPWPSPKV/YRI TRHGATATWPYIFKNFYPTRPS*NSLSLK RTS*IQMPAL*MERLQFVCPS/LAEDLT F*EKQDSKFTSQNREN*AFSRRS*GMLEK D*KWTTSDIV*VFVLFKSHVEMLSPVLE VGSSRRFLGHGGRSLMNGWVLSLW**V SSYSISSCESWF*KESSVFLTFLLPFWPC DMPAPPLRLPP
6910	14961	A	7604	75	484	EIQLVLSLKTSLNKFKEIIEISSILSDHSGI KLEINSKGLQNHANTWKLNNLLNEH WVKNKIKMEIKTF/FELNDNNGTAYQNL WDTAKAVLRGKFTALNAYIKKYERAQT DNLRSHLKELEKQQT KPSRRKKK
6911	14962	A	7605	3	1105	
6912	14963	A	7606	802	1204	VLEVLTRAVRQEKEIKGIQIGKEEVKLLL FADDMIMYLENPKDSSKLLGLMNEFSR VSGYKINVHKSVALLYTNSDQAENQIKN SAPFTVV/SKKK*LND*IKYLGHI LTKEVK DLYKENYKTLLKESIDDISK
6913	14964	A	7607	3	419	RVECVVVGLEYDRSAAASNTITQVVVTHI QALSHEQ/SAAYTSFSNKHESFSRIHLL GHKLGLNHF*NVGIM/PN/IFSNPNRITLEI NTRSKTEKSTNLWKLNTLLNSQQSREE IPREKENT*NENENAAAQHLQDAAKAA
6914	14965	A	7608	1	341	RMGTCVNPRSLKGFGRPGGKKKPKQSSP LKS/SPKMALMGGNPGGAPFFRFLFFNF RFGPKKSSSPAPIFFFLKGL*INFGPPREP GGFNQKPQFPSAPGFEPWNPPQGPKP
6915	14966	A	7609	1	409	
6916	14967	A	761	85	379	KKPKTKKRTGPVRQNVRWGRSLSPGRA PAEGPQGGSTESPLL VGRCLILGLREPG VPPAAYGRFLRDYMNISIQGKLEKQRPQ* GLPSLTGAAELIKH

6917	14968	A	7610	3	644	GDQRDLISNNEQLPMLG/ERPGAPESQRP AQPSRDTRPPLPSPKIASPMCSLKKG*KA ITPMPLLPQSPKTPKP/VSKMRMATPLLM QALPM/DALPQGPQMKNATKY/GNMTED HVMHLL/TVLTKC/QEEVSHIPAVHPGSF RP/KCDENGNYLPLQCYGS/TGYCWCVF PNGTEVPNT/KSRGHHNCSAPSPSPISHL LIP*DPGAWLFRHPGQDKPSRNSR
6918	14969	A	7611	1	1032	MHRRRSRSCREDQKPVMDQQRDLISNN EQLPMLGRRPGAPESKCSRGALYTGFSL VTLLLAGQATTAYFLYQQQGRLDKLT TSQNLQLENLRMKLPQASKPVSKMRM ATPLLMQALPMGALPQGPQMKNATKYG NMTEDHVMHLLQNAADPLKVYPPLKGSF PENLRHLAKNTMETIDWKVFE/SWMHH WLALFEMSQPLPCSKSPLDAPPKVLTKC QEEVSHIPAVHPGSF/RGPKCGRGTGNY LAIPVAYWGASATC/WCCLPNG/TREVP NTRSRGHHNCSSESLGTWKDPSFLGLGV LTKQDLGPVPIVRASRGGLQHPASPTQL QLSCSLQPPAPPPSPTL
6919	14970	A	7612	59	321	LSGSPLVTATSQVPLSRGKTGGPDPA/ SALPAPTSPISPPPSRSSLRRPRAPSGCP WGCPGSLQQAAGPLHWQDYRPGVRVRL PG
6920	14971	A	7613	1	464	DEEDGENAHPYRNSDPVIGTHTEKVSLK ASDSMDSLYSGQSSSGITSCSDGTSNRD SFRLLDDGPGYSGPYCDQATLHTDFTSP YDTSCLKI*KGDIIDICKTPMRMWTGMV NNKVGNFQFIYVDVISDEEAAPMTIKAN RRSISILSKTLQ
6921	14972	A	7614	1	2119	LSLFLDLNENDFLSNNIHTYQGKTQGT YQAIKSGSDPVESMGTLKRLQKLVTWK KARVQNLDEVKPTLINLQDEDDTLISCL KLTKSREKKVNSVSTRKEEMEIRLDTL SASLGRSSTLNNCNLEDKLAWYEGEAY MWHHWKPFENPLWTCDFQIAQVGPW DHCSSCIRHTRLKSSCSMDLLHSWVTL CRQESSNITCWTKLREKRGDLFCILFVCF IDRKTPRKFSDDQALEILKIGRKQKVHSL GVVRIQNAQEKAIQCFREGETSKTKEYE SVIKFYPKQRSSSFNGFDRFRNNSLSKPD DSTEAEHGDPTNGSGEQSKTSNKEAVW GKKMRAISWTMRKKWGKKYIKALSEE KDEEDGENAHPYRNSDPVIGTHTEKVSL KASDSMDSLYSGQSSSGITSCSDGTSNR DSFRLLDDGPGYSGPFCGRARVHTDFTS PYDTSCLKIKVIGEQGCLVTWKGDIIIC KTPMGMWTGMLNNKVGNFQFIYVDVIS EEEEAPKKIKANRRSNSKSKTLQEFLE RIHLQEYTSLLLNGYETLEDLKDIKESH LIELNIENPDDRRRLLSAAENFLEEIIQE QENEPEPLSLSSDISLNKSQDDCPRDSG CYISSGNSDNGKEDLESENLSDMMLTDP LQLSPQLPQRGAGNINRRKTGFSLGHGK LNKEQRKDKKRLIQGWEVAELGPSAAF G
6922	14973	A	7615	3	452	
6923	14974	A	7616	1	475	PDSSGPHRLRENPPMVAVSCPTKTNVKG PPGGKVGAAHAQYGA/SEALGRUFLSFPT TKTYFPHFDLASHGSAQV*GATGKKVAD ALTNAVAHVDDMPNVAVRP*SDLHAHK LRVDPVNFKLLSHCLLG*PWPAPHLPRPS FTPCGGTPSLEQSSWASC
6924	14975	A	7617	26	461	WESCGPHQRTG*AGSSRCGWRRRAAGP GCHQPRAGVPGRTRCAGRSPAADAAGR CWLGPPPPPGCGPRCLR*CAGHPPAGSA RVWSVVAGASTGLGRLWGRRWSPSCH RCQSPGCQAGRRGTARLSWPLSRRTSCR

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6925	14976	A	7618	3	419	LLDPSDGKSCGPTSKDCRRRIQYVSVEA LPRPALPHTTRGSGRKEARGEQSGAGA PADPDKLEAAVAVGEDVQQAPGCHQPR AGVPGRTCRAGRSPATRGTRDGT/QGR AGPATVPIPPGPWGGPTCRRCRTLLARR S
6926	14977	A	7619	2	227	AGVFCDAGLTFTSSSGQQAQRAELLC QPAALRRRSEPFVHLLDISGEYLLGTFY YCVENLRDGPCVVADAV
6927	14978	A	762	209	393	WAVYCTSFMLS*CYKI*CKPALSLLGI*T TEVKTYVYTNRCCEMSTSALLIVAKN*K HSCC
6928	14979	A	7620	11	394	SEFCDWVADLDVQKYEQPS/HEALTSMG STEARVDYMGSSILMGIFSNADLKLQDE WKVNLNTLDSSITDKSEIFVHGDLKWD IFQVMISRSTTPDLIKIGMKLQEFFTQQFD TSTRALSTWGPVPYL
6929	14980	A	7621	3	185	FFFFFEC/PTLAQARVLWCLHSSPQPQS PW/VSSNPAS/ASQAAGTAGMCHRAWLL KTEVGDL
6930	14981	A	7622	1543	1744	FVKSKALAFFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPRFRKFSCLSLPSSWD YRCVPQCPAN
6931	14982	A	7623	1	259	SENQEQEEVITVRVYDPRVQNEGSWNSY VD\YKIFLHTNSKAFTAKTSCVRRRYREF VWLRKQLQRYAGLVPVSELPGMPTLYG LY
6932	14983	A	7624	3	265	CCHPRLACSGMILA YCQSR L PGSKRFP CLSLPSSWDYKQPCHHTRILVFLVETGF HHVGQTGLE/MLRNSGDPPTLASQKCW DYKA
6933	14984	A	7625	2	375	RAALTPSTYKGAPSPK/GAPHSTGV TSA SPKEAPTPPAVTPPSPEKGPATPAPKGTP TSPPVTPSSLKDSPTSPASVTCKMGATVP QASKGLPAKKGPTALKEVLVAPAPESTPI ITAPTRKGPQ
6934	14985	A	7626	2	425	IFPPPKRGFFSKKKGVVFNPPASSSRFFAR PPPGVGPPQVSSSSSPFYFYASSSSYSS SSNFPS/HSSSSSSSSSPRQQHPHLYPHC RLGWAERAW/PPGTPLYHYKTQRKQGT SASPGRGTTCHTPQSPPLPGHRCPW
6935	14986	A	7627	3	253	
6936	14987	A	7628	48	557	AGLGKARLAPGTPLYHYKTQRKQGTSA SPGRGTTVTQRGH CYQNA GR TLQPPPC GQQTSGH*GPGWPYESQRLWKTPQRS* Q*FLHPPPR/HCHTPACGAASASPCVGRY CPRCSCAPARSASLAALTRETAPLLSPS WAPGDPTLEGWPGNGSPLPPRGM*PHL YPHCRLGWAKRAWPRGHHCITIKPRGN KEQVQVRGEGPLSRKEVTVIKTLVVFH SHHLAASKPAAIEGLDGLMSLRGYGKLH KDLDNDFCILLALPHSCLRSSFCITMCR ALLPEMLMCSCSLISGRSDSGNSSSSSFS FLGSRRPHVGLAREWFTTPTGEDVTGI EDGL

6937	14988	B	7629	122	1028	MENGQSTAAKGLPLPTPEQQEALQKA KKYAMEQSIKSVLVKQTIHQQQQLTNL QMAAVTMGFGDPLSPLQSMQAQRQGA LAIMCRVYVGSIIYELGEDTIRQAFAPFG PIKSIDMSWDSVTMKHKGFVFEYEVPE AAQLALEQMNSVMLGGRNIKVGRPSNI GQAQPIIDQLAEEARAFNRIVVASVHQD LSDDDIKSVFEAFGKIKSCTLARDPTTGK HKGYGFIYEKAQSSQDAVSSMNLFDLG GQYLRVGKAVTPPMPLLTATPGGLPPA AAVAAAAATAKITAQEA VAGAAVLX*
6938	14989	A	763	348	638	VQGKPWGMGRAVCPAPGPVRLERPV GTPCLCLHPARMTPAWGSIHCLPSHGGC PCLPVNAPSWLGQPSWARALLQ*WV LGAEGHLPTLRTTVG
6939	14990	A	7630	3	407	KSMTEAEQQQLIDDHFLFDKPVSPLLLA SGMARDWPDARGI/WIETLFKSKDYEFM WNPGLGYILTCSNLTGLRAGVHIKHE KFSEVLKRLRLQKRGTTGGVDTAAGGV FDVSNADRLGFSEVELVQMVVDGVN
6940	14991	A	7631	1	170	
6941	14992	A	7632	1	411	SYEVFKELFDPIISDRHGGYKPTDKHKTD LNPNLKGGDDLDPNYVLSSRVRTGRS GYTLPPHCSRGERRAVEKLSVEALNSLT GEFKGKYYPLKSMTEKEQQQLIDDHFLF DKPVSPLLLASGMARDWPDARGI
6942	14993	A	7633	2	1250	LPTDGAPPPPPGRPPAAAMPFSNSHNAL KLRFAEDEFPDLSAHNNHMAKVLTPEL YAE LRAKSTPSGFTLDDVIQTGVDPNGH PYIMTVGCVAGDEESYEVFKDLFDPIED RDGGYKPSDEHKTDLPDNLQGGDDLD PNYVLSSRVRTGRSIRGFCLPPHCSRGE GRAIEKLAVEALSSL/DGDLAGRYAL KSMTEAEQQQLIDDHFLFDKPVSPLLLG LGHGRRNWPDARGIWHNDNKTFVLVWV NEVEDHLRVISMQKGGNMKEVFTRFCT GLTQIETLFKSKDYEFMWNPFHWATSL PCHCNLGYTGLRA/GLH/KLPNLGQGM KFSEVLKPAEELSKSRPPGGVEHGLR WAGVFDVFQTLNRPGPSQSVELVQMV VDGVKLLIEMEQRLEQQQAIDDLHAW PKK
6943	14994	A	7634	1	175	EQLPYFVTFISMPATT/EGRRGFSLSVESA CSNYATTVQVKVVRMHISPRALGTLH HN
6944	14995	A	7635	1	83	
6945	14996	A	7636	61	2028	
6946	14997	A	7638	517	1038	NKRIYNCMMISSRRVISLSPVLLQIFDCP RLKFSEIPQRLTALLPPDPVINVHISEV APACFSDQGMISFLPSLPLPLPSLLPP CWICPSGALGPVWGHRCHEGLDFPGSV DPSDQKKTACYDIDVEVEEPLKGQMSSF LLSTANQQEISALDSKVGPFRAGVGH
6947	14998	A	7639	154	1594	LSRCRTLPSMTPLQHPTTVVQRPGMPS GARMHQGRPWAPRAPRTWAAPCDPA WPPRDGARPQASSAPARQSQASQGGP EPTAPARSRAKRRKMADKILPQRIREL PESQAYMDLLAFERKLDQTIMRKGV EALKRPMKQKRKLRLYISNTFNPAKSDA EDSDGSIASWELRVEGKLLDDPSKQKRK FSSFFKSLVIELDKDL YGPDNHLVEWHR TPTTQETDGFQVKVRPGDLSVRCITLLM LDYQPPQFKLDPRLARLLGLHTQSRSAIV QALWQYVKTNRQLQSDHDKETMTGDK YFPQNFDCPRLKFT*IPQRTAVLMPP DPVINVHISVDPDQKKTACYDIDVEV EPIK/GGQMSSFLSTANNQQEISALDS KIHETIESINQLKIQRDFMLSLRRPHKL CARTWLRSEQPGTSR*LTDVAGNPEER

						RA\EFYHQ\PWSQEAVSRYFY\CKIQASA GKEAW
6948	14999	A	764	746	1280	ISHMELQFGAIFAEILFRGPFHHLHNINFT WASCCPHASQPGRQRGSSWNEYHSFRE FNQEKEKIWRAGESAPLPLAGAAACPW RGGASNPICTVGASAAGGRAGGSGEET GSAPGAACSST*ESYEA\FSGFSSSPGNSV *TFSTSSTYTASPPTSPSPSPSPPCYYYS SSSSL
6949	15000	A	7640	256	426	HPICPQT\TKAFLPRMLELQNGHIVCLNSV LALSAIPGA\IDYCTSEAADFGFMESLT
6950	15001	A	7641	1	985	RIARPGEFRPLPGSAARRMAWKRLGALV MFPLQMIYLVVKA\AVGLVLP\AKLRDLS RENVLITGGGRGIGRQLAREFAERGARKI VL\WGRTEKCLKETTEEIRQM\GTECHYF ICDVGNRD\EVYQ\TAKAAREKVGDITILV K\NAAVV\HMGKSLMD\SDDDAFLKAQ\ NINTLG\QFWNHQGPFS\GKLCWKQ\QNGP H\LVCLQLPLL\GIVLAI\LP\GAIDY\CTSKA SAFAMESLDPG\VL\AGTCPGV\SATTVL ALSTTSTEMFQGH*EFRF\PNLFPPLK\PET VARK\TQVEAVQLNQALLLPWTMHAL VILKSILPQA\ALEEIHKILKETY\NLE
6951	15002	A	7642	1	376	KQAASNQLDSLMGLG\DSHPVEERGILC EFCGVQLFYDVLVHYQDQWDLRPGTAF FRVTEGIPRLHSQAQETWPEL\PLRRVRR QENLSSGYLDDTLLETANGPTFCLPARPF NNMTATYNQLSRS
6952	15003	A	7643	1	2753	MKEFSSTAQGNTEVIHTGT\LRHERHHI GD\FCFQEMEKDIHDFEQWKEDERN\SH APMTEIKQLTGSTNRHDQRHAGNKPIKD QLGSSFHS\HLP\ELHMFQTEGKIGNQVEK SINSASLVSTSQRISCRPKTHISKNYGNF LNSSLLTQKQEVH\HREKSFQCNESGKAF NYSSVLRKHQIIHLGAKQYKCDVCGKV NQKRYLACHRRCHTGKKPYKCND\CGKT FSQELTLTCHHRLHTGEKHYKCSECGKT FS
6953	15004	A	7644	1	149	DSFGASRFLRIHA\ENTYFTLRAYFAESRCI EALDELASLQVTMHQAQKHT
6954	15005	A	7645	81	331	KGARFLLILYL\LD\AFLFNLDLFFLEYPS YFLLCFC\SLLLFFCHCFSLYFFVCRPSS LFSSSILLILLFLVR\LLFLCLFL
6955	15006	A	7646	701	1114	ATRH\SM\SCIYTYIYIKHTHTHVFIYIYT YTYIHTHIYTYTYICHTHIHIYIYIYIHTH FFFFFFFETESRSVTQAGVQWHD\LGSLQ AASWGHA\DSPASTSQAAGTTGAHHHA Q/LI\FFFFVFLVETGPHRASQDS
6956	15007	A	7647	1	207	RSVFRER\GKLSAG\SLVERLYRVR\RFDRF ERILKMARKAVETHVLRSPHLVSDYRDS IIPSESLALPC
6957	15008	C	7648	244	432	
6958	15009	A	7649	898	1144	IFQLLMEGPANIIGNTGSSNTGRSNTGP SNQSSYLISFL\FCFFETESRSGRPGLGV QWAWISGSLQALPPGSTPFSCLS

6959	15010	A	765	1	493	KGPVSKEPRSGMNRNSALRVNVRPLRPC PQEGGLPLQSCVPPLGLCRVPSRGKQPK HLLPTG**AIALPNLHVIDFIPLKLSFGL* GVPQGGPPLGRGPQSQGSVLTQAPMGG GPRKGLPIDRPCE*GACTLGPWAAVPVLS SKGPFPTVGPRLSDSFSAR
6960	15011	A	7650	1	476	ATRELVTSGLRRKTGLWARPKEKPTA WHLASLRPDELVRNPQEPQPGPREEGS LGHVARTPAPGGGQRHLSRAGHSRPG RRFKATLWLASEHPLSLGDQVTPIDLM AISNAHFAKLRFITLRLPPGFVPKIEIPL FHVNLARIHLSGNLCCG
6961	15012	A	7651	1	1071	
6962	15013	A	7652	2	240	SCSIGSFQFG/YYPGVINAPETIHKKFKINK/S LTAKANAPPSEVLLTNLWSLSVAIFSRRG YESASLFPSSGLFVNRFQVLT
6963	15014	A	7653	2	391	QTGRGMWCSLVFLLLPATPRKQSEPK TTDAAAPGTADTAGPGTMDTAVPRKAE TAVPGKRNTAVPGTADPASPGTADTAEP MRTTTPTVLASWPSLTQSTKAPSPRLLP APSPGSCSATSTSCSRSP
6964	15015	A	7654	1	200	
6965	15016	A	7655	3	416	CLFPVQLLLDHGADPNQRDGLGNTPLHL AACTNHVPVITLLRGGSGFFPSLSSFSF SPPECSPQLVPAGARVDALDRAGRTPLH LAESKLNILLEGHAQCLEAVRLEEKHHH MLKEHLELLGRHYQLINAWMTLD
6966	15017	A	7656	1	395	KVQSRCSSKENILRASHSAVDITKVARR PRMASFALTSMDKAFITVLEMPVLGTE IINYRYGMARGLVQYVVSDDIVFSFLFSL LYEYFIRSFHFSLSLFIYLSLSRFFKLRESF FCFSSIFLSSTFALS
6967	15018	A	7657	210	441	LNPILYSPGRDHRVQNFHLPRLCIQKLP KSKCFIYELPAHRKKLVQLEPLTDELE PDFVRQVTEMSYIFSHSMI
6968	15019	A	7658	8	399	RVGVAGPAPWWLRVSLGGRDFHTPISV TKVAERGKAEDADLRPGDIIVANGESAE GMLHAEAQSKIRQSPSPLRLQLDRSQAT SPGQTNGDSSLEVLATRFQGSVRTYTES QSSLRSSYSSTSLSSRA
6969	15020	A	7659	2	260	WEPPWPGPVLGLPLPLPPSSPSSLPIPPP PRGCSLGASSA/WTAWVSSPKPVRPQE PPPGGEGSNENHRRKWHPPFSVMLKSCY
6970	15021	C	766	82	201	MKSKHFINLISRQHKNYNLYTTFIRSDF KTAIFLSILS*
6971	15022	A	7660	2	442	PRVRVYYFRQGHEAYVEMARKNKIYSI NPKKQPWHKMELREQELMKIVGIKYEYV GLPTLCCLKLAFLDPDTGKLTGGSFTMK YHDMPPDVDFLVLRQQFDDAKYRRWNI GKGE/CSDRFRSVIDDAWWFGTIESQEPL QLEYPDLSLFQ
6972	15023	A	7661	965	1232	TGVQWPDLSLQPLPPEFKQFSCLSLLR GWDCCRPLQLADFCIFSRDGGYCYVG QAGLKLLTSN/DLPASASQSAGITGVSLC TOPKSS
6973	15024	B	7662	111	374	MVAAATGSEILLWALQAEGGGSEIGDSG NWIEIAYGTSLGGVRVIVQHPETVSGSP QLLQTFVHRSPVTKIMLWEKHLISVCA DNNH*
6974	15025	A	7663	387	545	

6975	15026	B	7664	181	4716	MGRPAPAVPRPARPATPPAWTAALPAG RPRGDPGFRAFLCPLICHNGGVCVKPDR CLCPPDFAGKFCQLHSSGARPPAPAIPGL TRSVYTMPLANHRDDEHGVASMVSVHV EHPQEASVVVHQVERVSGPWEEADAEA VARAEAAARAEAAAPYTVLAQSA GYSDASGFGYCFRELGGECASPLPGLR TQEVCCRGAGLAWGVHDCQLCSERLGN SERVSAPDGPCPTGFERVNGSCEDVDEC ATGGRCQ
6976	15027	A	7665	209	1288	EEKNERDRDTERKGEARTSKTSQKRET KETTGGKTKQKRKKEKTTDKKTKRKR TSKTEENKKRQKEKEDRERDESTKRKE GERERRGNARRRKKGGEHKKRGERRN NSKGEGEEEEERGRKTKAKTRRTRQATNT DSKNEKGRKGKGQTRARRPAETGRRRR KRKRQRKAGETTPGETGRWCASVRSVD GSPTTAFTVLECEGSRRLGSRPRRYLLN CQANGSLAMWDLTTAMDGFQAPAGG LTEQELMEQLEHCELAPP/R/CASSSLNG AVSPSPSPRISLT/NASTQASSNTSFVWPT VGSPKPPARLKARRRGWGEALWKAAR NWCVGQTSBGHPHQAPWPSKRSRHSP HTFQE
6977	15028	A	7666	3	1703	GGRRAAALGVAIGAAGAAARAAWTGP ARRASPRALHPGRVRPALRPWADRLPLY PDLRAPQRHQRGQRSSRRGGPGGTRLPR LVPSEAAEPAQPSGASAAARTAQPLSDG ATRCPPTLAMHGCWAECWMRKPLPHPQ VRFYLVGQPEEPMVRLVCGHHNWIA VAYTQFLVCYRLKEASGWQLVFSSPRLD WPIERLALHARVHGGALGEHDKMVAA ATGSEILLWALQAEGGGSEIGVFHLGVP VEALFFVGNQLIATSHTGRIGVWNAVTK HWQVQEVQPITSYDAAGSFLLLGCNNGS IYYVDVQKFPLRMKDNDLLVSELYRDP AEDGVTALSVYLTPKTSDSGNWIEIAYG TSSGGVRVIVQHPETVSGPQLFQTFTV HR\SPVTKIMLSEKHLISVCADNNHVRT WSVTRFR\GMISTQPGSTPLASFILALES ADGHGGCSAGNDIGPYGERDDQVFIQ KVVPASQLFVRLSSTGQRVCSVRSVDG SPTTAFTVLECEGSRRLGSRPRRYLLTGQ ANGSLAMWDLTTAMDGLGR/SPAGGLT EQELMEQLEHCELAP
6978	15029	A	7667	8	566	TLVTVGNSQGREGLAFLVSCPEGRADCA SESACSSDSLDEARSSGSEGTADTGDLS PGHGASAPSVSREARQTVPLTVRLHTQ SVSECITEDGRTVAVGDIVWGHR*GRT CWPGASDLCSGL*AFWPAACRAHWAR WSAWCEVPRGPAVCSGRGWT*AQRLLP LSVFVPTTQMAALAHEAV
6979	15030	A	7668	2	610	SPEILVDPRLRPRVRLAFLVSLVGRADC ASESACSSDSLDEARSSGSEGTADTGDLS SPGHGASAPSVSREARQTVPLTVRLHT QSVSECITEDGRTVAVGDIVWGKIHGFP WWPARVLDISL/WPEGGRRAVLARVKV SWIGSPTTSFLSISKLSPFSEFFKLRFNRK KKGMYRKAITEAANAARHVAPEIRELLT QFET
6980	15031	A	7669	3	392	ADAAVPTRCVTSGHSLPISGHAAESELFH R/P/AGILPSRRNVLPARGASSTRRARPLE RPATPVVPVAPSSRAARSRHIDPLLQSSSPT PPGPTGSAAYVAVPTPNSSSPGAGRPA GAMLYHSWVSEITE
6981	15032	A	767	88	372	QGMDSKRRGVKLNDDGQFMPVLGFGTY APS*VPRSKALEVTKLAIPEGFRRIDSGH LYTNEEQAGLAILNMIADGCVKREDIFY TSELWATFY*PE



6982	15033	A	7670	5	393	GFRNPPRDSHHPHSTRRRRAFLRRWEKD PGRGKGRAPEPAQQRDASPTRRPLEGP/ PREHLRQWERLPPKSPWKEVFAFVSAN KACSALSGPVAPVETAAPSPPS/PRVRG RSGPRTKGARPRNRCCDD
6983	15034	A	7671	2	399	ARTNTGGRPYCFIRMSNLHRTQQGYN NPRPLSTNIIQSDIQTETKLRPYQISMCE LGSAGVTSAFSADCKGAEKISSGHQRL EPATLSGIA/GFILSLLWGALNLPGFHAI QRLLOREGDDFNSFIALF
6984	15035	C	7672	151	339	MSTFPIHISPKLRGDDVGRXLXWRWPL RGFCATVRWCPPGAAGWCAXPVRAESA FXRPAKS*
6985	15036	A	7673	19	443	SVRWNSCRAEAPQWPAPAAAPAAHSPH LSLGESGLGKLILNSLFLTDLYSPEYGP SQRIKKPVQVYILVFLIDDKLE*Y*YTQST CCNFHYASQSWQPAINYIDSKFEDYLNA ESRVNRCQMPGNRVQGCIFYIAPSGH
6986	15037	A	7674	152	532	QALRANRPAPVAEGATDRTVAQKLLNG QRQLQPRPTRLI*AWVEQSKVLIKDGG VQLLTIVDTPRFGDAVDNSNCWQPVIN YIDIKFEDYLNAESRVNRCQMPGNRVQ* *LYFIAPSGHGPHLN
6987	15038	A	7675	1	627	GSARSAAEERSVNSSTMVAQKQKNEG YVGFANLPNQVYRKSVKRGFEFTLMVV GESGLGKSTLINSFLTDLYSPEYGPSPH RIKKTIVQVEQCGVLKEGGVHLLLTIVD TPGFAGDAVDMNSCWPVVIDYIDSKFE DYLNAESRVTRRQMPDNRVQCCLYFIA PSGHGL/KPLDIEFMKRLHEKVNIPLIAK ADTLTPEECQFK
6988	15039	A	7676	2	371	VLELEERALLREARLGRARSSGGMQATP ATEGLARPQAPSSAFRCPCYCKGKFRTS AERERHLHLHRPWKCGLCFSGSSQEEE LLHHTCQVCGQSFTQSWFLKGHMRKH KASFDHACPVCGR
6989	15040	A	7677	44	983	RGSMEGSRPRAPSGHLAPSPPAFDGELD LQRYSNPAPVSAAGSLGMGAVSWSESRA GERRFPCPVCGKRFRFNSILALHLRAHPG AQAFQCPHCGHRAAQRALLRSHLRTHQ PERPRSPAARLLELEERALLREAPTGES PKLRGHAGHPLPLMVW/PRQAPSSAF RCPYCKGKFRTRLERERHLHLHRPWK CGLCSFGSSQEEELLHHSHTAHGAPERPL AATSVAPPPQPQPQPQPPEPRSVQPPEP EPEPEREATPTAPAAPEPPAPPEFRCQ VCGQSFTQSWFLKGHMRKHKASFDHA CPVCGR
6990	15041	A	7678	1	582	GNAGLSSLTEGVLDLFAVKAVYMGHPGI DIHTVCVQNKLGSMFLSETGVTLTYGLQ TTDNRLHVFAPKHTAKMLFSGLLELTR AVRKMRFKPDQRQQLRKQYVSLYQE DGRYEGPTLAHAVEFGGRRWSARNPS PGTSAKNAEKPMMQRNNTLGISTTKKKK KILMRGESGEVTDDEMATRKAKMHKEC R
6991	15042	A	7679	2	428	SVGSESDSSKEGPSMTRSGPLRRSRAVP G/PEESQGNLTVIRVVIHDLQQTCKIRFNP DATVWVAKQRILCTLQSLKDVLNYGL FQPASNGRDGKFLDEERLLREYPQPVGE GVPSLEFRYKKRVYKQASLDEKQLAKL HTK
6992	15043	A	768	177	311	WFQNPCYYLFFLETESLSPRLERSGTVS AHCSL*LPSSSDSPAS
6993	15044	A	7680	1	248	VIFLVNSGSEANELAMLMAHAHSNNIDII SF/RTMCPDVFRGPWGGSHCRDSPVQTIR KCSCAPGPTGQGGCQWSVGSWKGHE
6994	15045	A	7681	1	501	

6995	15046	C	7682	60	380	
6996	15047	A	7683	3	649	LSPSYFHSISFPHSLFLPLEGTVTRNRELW GLLQAMGVHHSRIPLAPPHLNLKVQQ DSEQLEPGLQSASMGVGFSLGRNDSNLE TFAETLVPGSIPLPGILEMHPFLSLGTSRT SVTKLSLHIKPRMPPCDFMPERYQVIFLV NSGSEA\NE\LA\ML\MARAH\SN\NID\N\NFR GAY\HG\CS\PY\TL\GL\TN\VG\TY\KM\KL\PGG TGCQPVSL\EIFLLFL
6997	15048	A	7684	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAH\CNL\TLPPGFNNSCASASRVAG TTQ
6998	15049	A	7685	1	310	RPRRRGDHREVKGGRGGKGGEGRPQGG QRWAVGKGGEGRPQGGQRWAVGKGGE GRPQGGQRWAEKGKGGEGRPQGGQR\GQ WGKGGEGRPQGGGER\GPGGKGGE
6999	15050	A	7686	2	320	KYVFTDISYSIPHRERFIVVREPSGTLRKA SWEERDRMIQVYFPKEGRKILTPHFKKE NLRFE\PD\STEYIKVHHKTYEDIDKRGKY DLLRSTRYFGWEVWVFC
7000	15051	A	7687	22	1071	GVLRAWNGSVSGLESSPGTVACSNRYL ALSRWGCHSRINSYGAESGSPETKKPT FMDEEVQ\RV\LT\KMT\GLN\LQ\TKF\PAIQ ELKPPTYKLMTQAQLEEATRQAVEAAK VRLKMPPVLEERV\PINDVLAGDKDFWK GTETTKYVFTDISYCIPHRERFIVVREPS GTLRKASL\EDRDRMIQVYFPKEGRKILP PHFKKEENLRTMYSQDRHVDVNLNCFQA FEPDSTEYIKVHHKTYEDIDKRGKYDLL RSTRYFG\EMVWVYFVN\NKKIDGLLDIQI RDLIDDATNLVQLYHVLHPDGQSAQGA KDQAAEGINLIKVF\AKTEAQKGAYIELT LQTYQEALSRHSAAS
7001	15052	A	7688	2	383	FSAPAASEPLPFGPPPPSEPLPFGPPPSDP LAFAPPPSEPLTFSGPPPPSEPLTFSGPPP SDPLCFTAPPPSEPVPFSGPAPSDRLPFFG PTTSEPPNR\PGMPTQPHICLSKNTPLPE PTRLHP
7002	15053	A	7689	3	2484	PAIKIRRRRVRDLQDPPPMQMAPEIQPPSH HFSPEQRALLYEDTLTYVLHRLGHPEPN HVTEASELLRYLQEA\FHVEPEEHQQTLQ RVRELEKPIFCLKATVKQAKGILGKDVS GFSDPYCLLGIEQGVGVPGSGPSRHRQ KAVVRHTIPEEETHRTQVITQTLNPVWD ETFILEFEDITNASFHLD\MD\LD\TVESVR QKL\GEL\TDLHGLRRIFKEARKDKGQDDF LGNVVLRLQDLRCREDQWYPLEPRTES YPDRGQGH\LGQLVHKRRATSASR\SQP SYTVHLHLLQQLVSHEVTQHEAGSTS/W GRVAES\QAATV\FLHATQKDLSDFHQS MAQWVAYSRLYQSLEFPSSCLLHPITSIE YQWIQGR\KAEQEQEELAAFSLLTYGL SLIRRF\RSV\FPLSVSDSPARLQSLRLV QMCKMKAFGELCPNTAPLPQLVTEALQ TGTEWFHLKQHHQPMVQGIPEAGKA LLGLVQDVIGDLHQCQRTWDKIFHNELI SSTLKIHLFSMAFRELQWLVAKRVDHT TVVGDVVSPEMGESLFQLYISLKECQL RMSSSERDGV\ALDNFHRWFQPAIPSWL QKTYNEALARVQRAVQMD\ELVP\LGELT KHSTSAVDLSTGFAQISHTARQLDWPDP EEAFMITVKFVEDTCRLALVYCSLIKAR ARELFFRARRTKARAANMLCVVNDME QLRLV\IGKLP\AQLAWEALEQRVGAVLE QGQLQNTLHAQLS\GALAGLGHE\RTG\ VRTLAE\QLEVGI\AKHIQKL\GVRESVLP EDAILPLMKFLEVELCYMNTNLVQENFS SLLTLLWTHTLTVLVEAA

7003	15054	A	769	193	363	IPLALSTGNGTLLFFF*DRVSLLSPTLECS GVISAHCNLCPLGSSSYSAALASQVAGI
7004	15055	A	7690	31	510	GDHASDKETITVNIYAPNIRACSKYIKQT LTELKGEVDSNVITAISILRFQQLPTLIKT ESLRNRNSSSSSSSSSSSSSSSSSSSSSLKSLP TKESIGPDGFTDEFYQTFKEELK/PKSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSPEKDATRE ENYRPISL
7005	15056	A	7691	2	189	TYHIDRIKDKSHMIISIAATEKAFDKIEHPF MIKALSQLEVVGMTNVIKAIYKKS MANI TQQ
7006	15057	A	7692	3	409	NTANRAARVSASIEDSPDNSETLPPDESF RNGENAKRFAIDIGGTLTKLAYYSTVQH KVAKGRAFDHSGKDTERRSRPMRVQF KKRALLDGTSLRRRKPTPKPAWTSSKTIS STQRP/EVIQATGGGAYKVKDLI
7007	15058	A	7693	88	480	KEELYGDFEDLET/G/DVHKGKSGPDTQN EDIEKQDEIDPDEKKSAKKKHLDKKRKL KEMLDAEYDEGESTYFDDLKGEMQKEA QMRLKNHRWYKKILKSQDPIIFSVGWRR VHTILLYIEDHNGRQRLKY
7008	15059	A	7694	1	1068	MAANRDKDFIHRRCGPESQSEAVPQGLC RAERSSALAMLSGSVPRRTQLRPCGTQ RRCRRGGEADSGGEAVGGGAAERRSAA ARRRGRRRGGEAVGGGAAERRSAA ARRRGRRRGGEAGGGGAAEARR AAAAARRAAARRAAARRAAARRAA AARRIAESGGEAHSRGEAHSRGEAHSRGE AGAERRRRLHSPALKTHPGQSEGHVE YKLNHVEFEDQDDEARVQYEGFRPGMY VRVEIENVPCFVQNFDPYPIILGGLGN SEGNVGHVQMRLKKHLWYKKILKSQD PFISSVGGRRFQTIPLYIEDHNGRQRL KYTPQHMHCGAAFWGKI*LO*LAYCRD
7009	15060	A	7695	66	844	KEELYGDFEDLETGDVHKGKSGPDTQN EDVEKKEEIDPDEESAKKKHLDKKRKL LKEMFDVEYDEGESTYFDDLKGEMQKQ AQITAYRFSPTPSCTLNHAEFEDQDDE ARVQYEGFRPGMYVCVEIENVPCFV*N FDPYPIILGGLGNSEGNVGYVQVGPFA AYLVPEALWISPPSILPSHPPQMRLKKH RWYKKILKSRDPIIFSVGWRRFQTIPLCYI EDHNGRQRLKYTPQHVRHG/AAFWDKI CLQ*LAYC
7010	15061	A	7696	1	1177	LRMRLGTRSALWACRGWGQQHMAW LTEQPLGVLFPEELYGDFEDLETGDVHK GKSGPDTQNEIDIEKEVKEIDPDEESA KKKHLDKKRKLKEMFDAEYDEGESTYF DDLKGEMQKKAQLNHVEFEDQDDEAR VQYEGFRPGMYVRIEENVPCFVQNFDP PHYPIILGGLGNSEGNVGYVQMRLKKHR WYKKILKSRDPIIFSVGWRRFHTIPLYIE DHNGRQRLKYTPQHMHCGAAFWGPIT PQGTGFLAIQSVSGIMPDRVAATGVVL DLDSIKIVKKLKTGFYKIFKNTSFIK MFNSALEVAKFEGAVIRTVSGIRGQIKK ALRAPEGVFRASFEDKLLMSDIVLMRLS TCSIPA/FY/NPVTSC*TIGEKHLVRMRPR P
7011	15062	A	7697	163	371	KGTTKL VVKLSDFKSYFAIVIKTVRN/W HKYKHIDQWNRJQNPEINPHIYQMIFK KRAKNKQWKDGL

7012	15063	A	7698	270	1479	PGCAFSSSGTSRQLAPVLGYLGSRQKHS LPDLPHYDYGALEPHINAQIMQLHHSKHH AAVNNLNVTEEKYQEALAKGRFQAER EKNVVCFTNF*GDVTAQIALQPALKFNG GGHINHSIFWTNLSPNGGGGEPKGWIYCA PLSTTSCTVGIDVISWAL*QKIF*IHVI*HF TVIIGNLFICGWFWDFFFNR\ELLEAIKRD FGSFDKFKEKLTAA SVGVQSGSGWGLG FNKQRGHLQIAACPNDPLQGTGTGYI*IG LSVVPVWKTSPLLKNVDSKVKGKRTVY QGDGHYVNHHPNQVFWGRGAVKALNR NLKGAPDLELDGESRANCGEKGREESER SGR*AWQLCSVTGAPFFLTGLIPLLIDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7013	15064	A	7699	94	330	KSRSYKKMCLHFNFSGDVTAQIALQPAL KFNGGGHINHSIFWTNLSPNGGGGEPKG WYILVHPYLHFVHSRNRLLIYWR
7014	15065	C	77	183	350	MYGLPGFFYAHXXXXXXXRXR HAPALRVNTRSHSPTGGRVALPQPWL MV*
7015	15066	A	770	260	360	SPN*SPNVIFDS*DSPEKTAATVRGDFYV TGDRGMMD
7016	15067	A	7700	33	807	GPRAAQERHSLWWLQRQLQIGGISG STSTSSMLSRVCGTSRQLAPVLGYLGS RQKHS\PDLPYDYGALEPHINAHIMHLH HSKHHAAYVNNLNVTEEKYHEALA\RG DVTAQIALQPALKFNGGGHINHSIFWTN LSPNGGGGEPKG/EELLEAIK\DFGSFDK FK\KLTAA SVGVQSGSGWGLGFNKER GHLQIAACPNDPLQGTGTGLIPLLIDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7017	15068	A	7701	2	436	SGRGASLRPGVRPPSVSWEPYSGPGSTPP PPSSRSKDVGKPAQSWVRGGSTQPN TGQ LPKEGLSTPHVPVPRAGIPSSRQALLSSGN PGTRAPSAPALRPEAQSPAEPFGAP/SPE LGGERLGGARFQEPQPQAASFPGAAAT QA
7018	15069	A	7702	1	389	PGSSRQRCWHQPCFACQACQALINLIY FYHDGQLYCGRHHAELLRPRCPACDQLI FSWRCTEAEGRWHENHFCCQDCAGPL GGGRYALPGGSPCCPSCFENRYSDAGSS WAGALEGDAFLGE/HWKVTHSLGR LDS TN
7019	15070	A	7703	1	1217	MGGHLANVPTGTSLQQTGLMEKHFTSG KQLLKTLONNIPQTTERTHNGWHQAWL LVFSCVRSFYVAALFAVGLGCGIHWFC AVFSVCAGHSTAVVSLPGSQQHLSANM FVALHSYSAHGPDLDLQKGEGVRVLG KCQDGLRGVSLVTGRVGIFPNYVIP FSTPSQLSGCREVGPTLVKPVVHKMGVY GWEEGSISEGDH GKAVPSNPS/VVPTAIV NPVRSTAGPTLGQGSRLKGRSSMRKN GSLQRPLQSGIPTLVVGSLLRRSPT/MGPS ASAVPILPATGDPLLPLSRGGGDGVQA/S PSRGSPSRASAGAVRPGSTPRPAPSLWK TKKSPSRVS/LLPKPPASAPPSILVKPENS RNGIEKQ/DQREISEIQALLPPNITLPYPT SGKPEQPSLPQCVPA
7020	15071	A	7704	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNL\TLPPGFNNSCASASRVAG TTQ
7021	15072	A	7705	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNL\TLPPGFNNSCASASRVAG TTQ

7022	15073	A	7706	1	514	LSQSEKNYYSSRFSPDSQYIDNRSVNSD RASQ/ARERAPRLNHPPEQIDSHSRLPHS AHPGKPPSAPASAPQNVFSTTVSSGYNT KKIGKRLNIQLKKGTEGLGFSITSRDVTI GGSAPIYVKNILPRGAAIQDGRKAGDR LIEVNGVDLVGKSQEEVVSLLRSTKME G
7023	15074	A	7707	65	515	DPRVRAAGILYEFTWNQFCDWYLELTGP VMNGGTEAKLRGTRHTLVTVLEGLLRL AHPPIPFITETIWQRVKVLCGITADTIMLQ PFPQYDASQVDEAALADTEWLKQAIVA VRNIRAEMNIAPGKPLELLVAGICTRNP TSVNNRGL
7024	15075	A	7708	2	505	EPVKKIFNYIIHVFRNIMDFKFLVFAV VFLFFYARTLSQSPTFYSSGTVLGVLM TLVFLVLLVKRFIPKYSTFRALMVGCVF ASVYIVCQLMEDLKWLRYDNRIYVLGY VLIVGFFSFVVCYKHGPLADDRSRLLM WMLRLLSLVLVYAGVAVPQFAYAAAIL
7025	15076	A	7709	2	417	EPVKKIFNYMIHVNRNIMDFKFLVFAV GVFLFFYARTLSQSPTFYSSGTVLGVLM MTLVFLVLLVKRFIPKYSTFWALMVGCVF WVASVYIVCQLMEDLKWLWYENRIYVL SYVLIVGFFSFVVGTSMSGPLADDKSRNL
7026	15077	A	771	80	357	GPPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPPLA KFFFHQQTCL*KK*NKNRSLESAPLSVFI KKVTTT
7027	15078	A	7710	14	426	RPIRMAVKQKISMLCHVNPEQVICIHDVS STYRVPVLLLEEQSVKYFKERLHLPIGDS ASNLLFKWRNMADRYERLQKICSIALV GKYTKLRDCYASVFKALEHSALAINHKL NLMYIDSIDLEKITETEDPVKFHE
7028	15079	A	7711	61	204	GRYAYVWHCPQGPGLTPLVADTSGA YFRREGLGSNYLGGRSPTEVS
7029	15080	C	7712	537	710	MCHHTQPIFVFMVEMRFYVVGQAGLEV LTSGDPPVSAAQSTGITGLSHRAQPSSVR F*
7030	15081	A	7713	788	894	KHG\WLGTVAHTCNPSTLGGQGGWIMR SGVQDQPGQ
7031	15082	A	7714	1	452	SPVPQLIVPTVLSVVLLEPFLGAPLPANR LWTHLWAPRAWKQSPWQAP\GLGRLPS SLGIGSCGAPGAYTRPDIRLHDKACPAE HGGGRGPGEAASRPLTAPSPGGCPEGL GTTSPQSRRTASSGGSYRSFTDPPPPPIC HHRFFLTL
7032	15083	A	7715	48	421	DLQSSQGGQPRVQSWSPGRGIPQLPC AKALYNYEGKEPGDLKFSKGDIIILRTQV DENWYHGEVNGIHGFFP\TNFVQIKPLP QPPQCKALYDFEGKDKEADKDCLPFA KDDVLTVIRRD
7033	15084	A	7716	2	492	LTLNITITPSLARGNFYPLEGGRVLLDGK PISAYDHKYLHRVISLVSQEPVLFARSIT DNISYGLPTVPFEMVVEAAQKANAHGFI MELQDGYSTETGEKGAQLSGGQKQ RVA MARALVRNPPVLILDEATNALDADSRDL IQHALS\GNLRKHRDFLSPVWP
7034	15085	A	7717	2	721	EGKVEEPENPAAKEKCEGKEEEEETDGS GKESKQECEAEASSVKNELKGVEVGAN TGSKSISEKGSEE\VKRKSWMNTNKSEES SQPEAGAVSRGNFDEESNASMSTARDE TRDGFYMEDGDPSVAQLLHERTFASF WPKDRVMINRLDNICEAVLKGWPN RRQMFDQGLIPGYPTTVDSPLQKRSF AELSMVGQASISGSEDITTSPLSKEDAL NLSVPRQRRRRRKIGN

7035	15086	A	7718	111	381	DRGLASFAQGLEVQWHNLSLQPS\PPV LRRF/SPCLGLPRGCDYRPVPPHQANFCI VSRDGFYHVGQAGLELLTSSDPPTSQSQ SAGITGV
7036	15087	A	7719	1	190	ENKEEGQLPSSFYEASIILTLKPKDKSTK KS/SYRPT/SLMNFDAK\IFNMFTNRIQQ YIERIHH
7037	15088	A	772	80	357	GPPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPPHLA KFFFHQQTKL*KK*NKNRSLESAPLSVFI KKVTTT
7038	15089	A	7720	1	2499	MAAAVAAPLAAGGEEAAATTSVPGSPG LPGRRAERALEDATGTLNLSNRRLK HFPRGAARSYDLSITQADLSRNRFPPEVP EAACQLVSLEGLSLYHNCRLCLNPALGN LTALTYLNLNRNQLSLLPPYICQLPLRVLI VSNNKLGALPPDIGTLGSLRQLDVSSNEL QSLPSELGLSSLRDLNVRNQLSTLPEE LGDPLVRLDFSCNRVSRIPVSFCRLRHL QVILLDSNPLQSPPAQVCLKGKLHIFKYL STEAGQRGSALGDLAPSRPPSFSPCPAED LFPGHRYDGGLD SGFHSVDSGSKRWSG NESTDEFSEL SFRISELAREPRGPRERKED GSADGDPVQIDFIDSHVPGEDEERTVEE QRPELSPGAGDRERAPNSRREEPAGEE RRRPTLQLWQERERRQQQSGAWGAP RKDSLLKPLRAVVGAAAVSTQAMHN GSPKSSASQAGGCSGAGSPAPAPASQEP LPIAGPATEPAPRPLGSIQRPNSFLFRSSS QSGSGPSSPDSVLRPRRYPOVPDEKDL TQLRQVLESRLQRPLPEDLAELASGVIL COLANQLRPRSVFPIHVPSPAVPKLSALK ARKNVESFLEACRKMGPVPEADLCSPSDL LQGTARGLRTALEAVKRVGGKALPPLW PPSGLGGFVVVYVLMMLLYVTYTRLLD PRSPQVAWEVAPSRMTPLAPWDPKYE KAGPRPVWVSWGQTCGTGWGAQGA VRWPEAPVLCPPHPRGPTVAQEPRSQAGRC VTPHSGRCMKQPRAGVSGPWPLPQGTG MDSRRPQM QGSRWCAVKMSSSRTLCCP GGSVFPCTCPRPPSR
7039	15090	A	7721	1	647	RPPVPVQVPDKDLMTQLRRVLESRLQR \PLPEDLAELASGVILCOLANQLRPRSV PFIHVPSPAVPKLSALKARKNVESFLEAC RKMGPVEESLCQPHHILEEGAPGRGVL LIIAAVVQRPAGPALGVKVGAGQPPRPG PREQKTRLGSALSEKHVVRVAWAWARL GLPRLAASGVEGLGGRTCGCRRRCVSR NKQKPEALWKRGC KIKKKL
7040	15091	A	7722	3	450	SRLVQRGGIPLGGWRMGVRRGTGQVGP TMHPPPVSGASP/PPPPPPPPPHHHPHL LRTSCVPSGLYAQSSSSSSSSSSSSSSSS SSSSSSSSQLNKL PKFQVSSPNSPTLSSSF SFLPFFPASSLTRQFFIECLPGAGMSQVL GK
7041	15092	A	7728	3	368	LLGQAVKYGVNPGPYGGTTARKLYEKK LLRLREQGPESRCSTPVPTISSAENARQ NGSNDSGRYSVNEEDSKIELKLEKRDPL KGRAKTPVTRKQRRVELSESYSQAGMD EGVWSSGSSKG

7042	15093	A	7729	1	1492	ALMDEILMLQDEINELQSSLAEBLVSESC EADPAEQLALQSTLTVLAERMSTIRMKA SGKRQLLEEKLNQLEEQRQEQALQRY RCEADELDSWLLSTKATLDTALSPKPEP MDMEAQLMDCQNMLVEIEQKVVALSEL SVHNENLLLEGKAHTKDEAEQLAGKLR RLKGSLLQLRALHDKQLNMQQGTAQE KEESDVDLTATQSPGVQEWLAQARTTW TQQRQSSLQQQKELEQELAEQKSLRSV ASRGEEILQHSAETSGDAGEKPDVLSQ ELGMEEETSAEDQMRMKWESLHQEFS TKQKLLQNVLEQEQEVLYSRPNRLLSG VPLYKGDVPTQDKSAVTSLLDGLNQAFE EVSSQSGGAKRQSHLEQKLYDGVSA TSLWDDVEERLFVATALLPEETETCLFNQ EILAKDIKEMSEMDKNKNLFSQAFEN GDNRDVIEDTLGCLLGRSLSDSVVNQR CHOMKERLQQLNFQVSKILSKDT
7043	15094	A	773	810	1075	SLRSSKTQPRQHGKTSSLLKIQKISRVW* RTLLLGLKLRQENCLNPGGGGCSEPRLHH CTPAWATE*DSGSQKKKKGQGRKSCHF SVRT
7044	15095	A	7730	1073	1233	PYSGLGIFFFFLRHGLTSPRLGCSELRLC HCTPAWVTSTKTVSKNKKQKNSR
7045	15096	A	7731	34	445	STHASGDHSPHICS/TG/SYFFANSLPSKG PTILMPVNTAALTVPANPASVITVPSKLP TSSKPPGAVPSNALINPAPSKLPINSTR GMVPSKVPTSMVLTKGCASVTPTDGGSI NEETPMAPTPAGAVGSSLAWLDT
7046	15097	A	7732	3	416	
7047	15098	A	7733	1	2115	
7048	15099	A	7734	1	662	SLFASNVGSGHFIGLAGSGAATGISVSAY ELNGLFSVLMALWVFLPIYIAGQVTMP EYLRKRFGGIRIPILAVLYLFIYIFTKISV DMYAGAFIQQLSLHLDLYLAIVGLLATA VYTVAGGLAAVITYDALQTLIMLIGALT LMCYSFAAVGGMEGLKEYFLALASNR SENSSCGLPREDAFHIFRNPLTSDLPWPG VLFGMSIPSLWYWCCTDQGG
7049	15100	A	7735	3	315	
7050	15101	B	7736	107	388	SKKLLFAGSRSQLVQLPVADCIKYRSCA DCVLARDPYCAWSVNTSRCVAVGGHFG SLLIQHVMTSDTSGICNLRGSKKVRPTPK NITVVAGTDL*
7051	15102	A	7737	98	473	IRGDTISYTVRSPPPRAGREYAMSTAGPP SPFSPLTQPPALYREEGKYKIPLNPGAK/ YVRAPPNPSPQTHSRLHFSPHPENIHRP WSRTRPTSPALPLKGHSTLSTPPPYVHR CPTFGGSGG
7052	15103	A	7738	2	433	GDTGHRERSLGLLREKHTWGPHPQATP QAAVPSSRYTQPGPQGWVTVQGQPPSR GEHPRPAAGLSQLLHLGVPDGLGQSL DCEVTPKPSYSFPGTSGAGPPGTMGSSLP GNGNWDEEAHTLPQGGQEGMNEGGVPW RLIFR
7053	15104	A	7739	328	496	HNTDLFIY/CIYEMESCSVTQAGVQWRD LGSLQPPPLGCKQCSCLSLPSSWGLQVP ATT
7054	15105	A	774	499	946	LWLRPRGAGIAGAGICLRREGTWLLPLR SHGGKCEAASPWVSQRLELLQKPSALW WPLGLLHVHIFWKYTCAGSFLAGKLLRI TFNFFLFFFLPPISCIFYLFLFFFRDGV SLCCSGWP*TPGLKQSSCLSLPSSWDFKC TPLCLL
7055	15106	A	7740	1	372	MEKEEPPGVERKKENRVKEVIHKNRKGGA EGPPAGAALPLGGRGEGP/SPEPPGGAAA PRAGERCGLAGASPEPAETGTREPRPR GASAARKLAAAAPVGLLRPGCPRAGR

						RAPWPGKRLSEPRV
7056	15107	A	7741	34	366	ERPGPVGTLTPTQGPHPAGP/S/GRPGS LGFTWPYPGPCTWRPAWFPARPPAGSI TPPGFCTHTLVSLDPGRDCSPPTGDCDS LCPHPDASPGIKAFCAQGKKKKKKK
7057	15108	A	7742	2	462	IRARNYKLRKVMVDGDIPPRV\KKDAHE LILDFIRSRPLKQVSERRLRRLPPKQORSL HEKILEEIKQERRLRPVVRGE/ELGCPRVW LS/SPASSTPAEMPSPPPASTCQSQMLGA APSAR/VPRVLLKAPTLEEMEEMNTSEIR AQGPRNVTAHNQ
7058	15109	A	7743	2	1002	TGPGVPMCQVGEDYGEPAPEEPPAPRP SREQKCVKCKEAQPVVIRAGDAFCRD CFKAFYVHKFRAMLGKNRILFSGEKVLL AWSGGPSSSMVWQDLEGLSQDFAKRL RFVAGVIFFDGAACGQSLEERSKTLAE VKPILQATGFPWHVVALEELVGSEGAY KAAVDSF/RPAAACAGGPGVVLARLKG RNSHPSP/SLDPQNLARPPAPAQTEALSQ LFCSVRTLTAKEELLQTLRTHLILHVARA HGYSKVMTGDSCTRLAIKMTNLALGR GAFLAWDTGFSDERHGDVVVVRPMRD HTLKEVAFYNRLFSVPSVFTPAVDTKAP EKAS
7059	15110	A	7744	2	397	APDTPDSSKFQRSK/NYKGPLDPQRGKIE DKVNKSKVILKEPGLEDLGTYSDIVTDA DEDISASHTLTEELEKLKLSHEIRNPGI KLISGWNIDILERGEARLWLELEKLCPA ELHLIVHNKEIFRLPNR
7060	15111	A	7745	1	849	QKKELGHVNGLVDKSGKRTTSPSSDTDL LDRSASKTELKAIHARILERRASRPGTP TSSASTETPTFEQNDVDEIHDVDEEPPVA AEPDYVQQLRRPFELLIAAAMERNPTQ FQLPNELTCTPALPGSSKRRRKEETTGN VKKTQ\RELDHNGLVPLPVKVCFTCNRR CRVAPLIQRDYCPLLFHMDCLEPPLTAM PLGRWMCNHNIEHVVLNHNMTLSYRC QVFDRFQDTVSHVVKVDFLNRHKKH PPNRRVLQSVKRRSLKVPDAIKSQNQVS TP
7061	15112	A	7746	1	201	MKKKKEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEE/EEEEEEEEEEEEEEEEEE EEEEKKKKKKHNFKILSNLYIFIHIFCSKK
7062	15113	A	7747	3	112	KRTRLGMMAHA/CNLSTLGGQGGRVTR SGVRDQPDLK
7063	15114	A	7748	1	1476	LTVIRRVDENWAEGLADKIGIFPISYVE FNAAKQLIEWDKPPVPGVDAGECSSAA AQSSAPKHSDTKNTRKHSFTSLTMA NKSSQASQNRHSMEISPPVLISSNPTAA ARISELSGLSCSAPSQVHISTTGLIVTPPPS SPVTTGPSFTFSPDDPYQAALGTLPPLP PPLLAATVLASTPPGATAAAAAAGMGP RPMAGSTDQIAHLRPQTRPSVYVAIYPY TPRKEDELELRKGEMFLVFERCQDGF KGTSMHTSK\IGGFPGNYVAPVTRAVT NASQAKVPMSTAGQTSRGVTMVSPSTA GGPAQKA\QGNVAGSP\SVVPAAVVSA AHIQTSPQAKVLLHMTGQMTVNQARNA VRTVAAHNQERPTAAVTPIQVQNAAG LSPASVGLSHSLASPQAPLMPGPATH TAAISIRASAPL\ACAAAALPTSPTSAS LEAPSGRIVTVLPGLPTSPDSASSACGN SSATKPKDKSKK



7064	15115	A	7749	139	6503	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGSELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLTEKDA
7065	15116	A	775	56	425	GQSPPGHWGHVAQARELLRPGR LPCWV PDGHTPVRPVSGPEPPTGSRILSGEESPSR PPSSQAARPQPGQPRDPSSLRIPLLRP* LSQSGLASSGSLRAGALPRRPPGPALLS PTPCTSI
7066	15117	A	7750	1	5290	MTLHATRGAALLSWVNSLHVADPVEAV LQLQDCSIFIKIIDRIHGTEEGQQILKQPV ERLDFVCSFLQKNRKHPSPEC LVSAQK VLEGSELELAKMTMLLLYHSTMSSKSPR DWEQFEYKIQAEALAVILKFVLDHEDGLN LNEDLENFLQKAPVPSTCSSTFPEELSPPS HQAKREIRFLELQKVASSSSGNNFLSGSP ASPMGDILQTPQFQMRRLKKQLADERSN RDELELELAENRKLLTEKDAQIAMMQ
7067	15118	A	7751	241	6574	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGSELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLTEKDA
7068	15119	A	7752	775	1128	REGLYLSRFPFHSKLPRTPQPDGTSVPGE ASPISQRLPPKVESLESYFTPIPARSQAP LESSLDSLGDVFLDSGRKTRARRRTTQI INITMTKVRLLGQGLQGSNSHFLSRASLQ
7069	15120	A	7753	331	530	LKIFFFFPSGGDMSKNVQSQMAKLNQQ MAKMMDPRVLHMHMGGMAGLQSMMR QFQQGAAGNMKGMM
7070	15121	A	7754	1	1517	MVLADLGRKITSALRSLSNATIINEEVLN AMLKEVCTALLEADVNIKLVKQLRENV KSAIDLEEMASGLNKRKMIQHAFVKELV KLVDPGVKAWTPTKGKQNVIMFVGLQG SGKTTTCSKLAYYYQRKGWKTCLICAD TFRAGAFDQLKQNA TKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIIVDTSGRHK QEDSLFEEMLQVANAIQPDNIVYVMDAS IGQACEAQAKAFKDKVDVASVIVTKLD GHAKGGGALS AVAATKSPIIFIGTGEHID DFEPFKTQPFISKLLGMGDIEGLIDKVNE LKLDDNEALIEKLKHGQFTLRDMYEQFQ NIMKMGPFSQLGMIPGFGTDFMSKGNE QESMARLKKLMTIMDSMNDQELDSTDG AKVFSNNSGRIQRLARPSCVSTSDVQELL TQYTKFAQMVK*MGGIKGLFKGGDMS KNGARSQIAK\LNQQMAKMMDPRVLH HMGGMARLQSMMRQFKQGAAGNMKG MMGFNNM
7071	15122	A	7755	42	449	FGLFNRLPYPPQHPKPHYSRIPGA/HAPP GPQNPSTFLSPLYCWGPSSKSPGAPKRC PSSISTPPPSATPPRTL TGSWPGQRCQKD GEAQSYQVRQDPTASPOPAGQSRLPSWS GNQTYLQGLHGRGPRARTLQLPG
7072	15123	A	7756	3	358	LLIHSSTHPPTYPIHPPGHFFLPLFFPFF FSFSPSFHPSTHPLIHLSTYPIHPSVYPPV PLSLSVYSSIHLPTPEYFLFQPV AH/RRSH GRISSMPGEQSPIPRLWKSPSSKPPFPW

7073	15124	A	7757	1	1668	MLVHTQPPEVHQYNHSSAATRSRFRQL QLQLIWGWSQVLPMSAFYQIIIQASGLRL HACVTPGAGTHSLPFLPSVGNLPSNKG SRVYCFFAADLFDILLPMLNIYQEFVRNH QYSLQVLANKQNRDFDKLLKQYEANP ACEGRMLETFLTYPMFQIPRYIITHELL AHTPHEHVERKSLEFAKSKLEELSRMIV EGCDILLDTSTQTFIRQGTMKNSNTIIVKH EWGRQLHSDWTLTLLSGPDILCSSKEDRS AWPTAVAVPSADDTQAKAQEKLALSKP FHIRLGT MSEQS*SLHQ RTEQEGKLPCS GHHRTFTLQIPLNSSAPPLSTAWRTDGG QCPLLCTGFCFCNSHSCSRTWEAPPEEE DDICLPTSQARCNEYVGLRKSIMLVQKK DKKNITCRSLTPSEEGLTIVKVLVFSEI MFNLDFKIVVEPPDAAFTVVLLAPSRQ EKAAWMSDISQCVDNIRCNGLMTIVFEE NSKVTVP HMIKAKVNGCTMSHLDNSLT LPFTDTEQGRSSSWTAGHVKAPCPLHAQ LPLLASLFLQELQAFARMSPPY
7074	15125	A	7758	1	2247	
7075	15126	A	7759	1	3711	
7076	15127	A	776	3	383	QGFRKLPLKTTTGKEKTHSCIVGLGHVN SGKTTTTGHLIYKCGGFDKRTIDKFETEA ADKAKGSFKNAWDLDKLKAERERGITID ISLWKYETSRYYVTIIVAP*LIDFIINMSTG TSQAD CAGLIV
7077	15128	A	7760	1	226	SLEFSQSKLQYLSRVKHDEVSDTENIRIN LAJERMIVEGCDILLDTSTQTFIRQWDHEN QQHNH SKARVGQAVTF
7078	15129	A	7761	41	1065	GRLGPHWSPQREGEAQAWQAAGPEPCP AGRQLRPGEKSSTAAPGPGAKLPPTARG QRGRPAALSAGPTEPAEPTPTRNSGWPA SAPPV/PRWGQPLLGVPGPEAGRYSAVAP SLSALRFPWWPQDVPVAVQSATDDAY EALSPSSCAFAMPSSVPAYPSITVTPDEE QNLNHYIQVLENLVRVSPSGEPGREKKS NSPKHVYSIASKGSKFKELVTHGDASTE NDVLTNPISEETTTFTPTGGFTPEIGKKKHT ESTPFWSIKPNNVSIVLHAEOPYIENEPE PEPEPAAKQTEAPRMLPVVTSSTSPYVT SYKSPVTTLDKSTGIGDLYRIRRCSSALR
7079	15130	A	7762	3	342	KERSREKTGGGGDLQREVAREDRRWRR SQREDAREDRRWRRSSERGLRRQAVA EIFRERDAREDRRWRRSSERGRPRRQ/RG GGDLQREDAREDRRWRRSSEREMPEKT GGGG
7080	15131	A	7763	205	338	NPYIYSQLFFDKGTKNIHWGRDSL FNKC CSENLSIIRKIKLDP
7081	15132	A	7764	1	666	GDPGAGPGDHNRFDCGPQPPPPKCELL HVAIVCAGHNSSRDVITLVKSMLFYRKN PLHLHMTGAVARNIMETLFTWMVPA VRVSFYHADQLKPQVSWIPNKHYSGLY GLMKLVLPALPAELARVIVLDTDVTF SDISELWALFAHFGVILLRLDRLRQAG WEQMWRLTARRELL/GLPATSLADQDIF NAVIKEHSGLVQRLPCVWNVQLSNHTL AE

7082	15133	A	7765	3	1289	INFPTTSGLDGDPGAGPGDHNRSDDCPQ PPPPRCELLHVAIVCAGHNSSRDVITLV KSMFYRKNPPLHLVTDVARNILETL FHTWMVPAVRVSFYHADQLKPQVSWIP NKHYSGLYGLMKLVLPALPAELARVIV LDTDVTFASDISELWALFAHFSDTQAIGL VENQSDWYLGNLWKNHMPWPALGRG FNTGVILLRLDRFRKAGWEQMWRLTAR REL\LSLPATSLADQDIFNAVIKEHPGLVQ RLPCVWNVQLSDHTLAERCYSEASDLK VIHWNSPKKVL\VKNNHVEFFRKIYLILL ENQGNLLLEEVFLCPSQPPTGADQLQR PLPQLDEEDPCFEFRQQQLTVHRGHLLF LPHEPPPPRPHDVTVAQLSMDRLQMLE ALCRHCPGPVSLALYLTDAAEQQLHFV EANGVGIDRV
7083	15134	A	7766	530	820	
7084	15135	B	7767	1	954	MATAATIPSVATATAAALGEVEDEGLLA SLFRDRFPEAQWRERPDVGRYLRELSGS GLERLRREPERLAEEAQLLQOTRDLAF ANYKTFIRGAECTERIHRLFGDVEASLGR LLDRLPSFQQSCRSRAARNAVSIMAAG AGTAGPASGPGVVRDPAASQPRKRPGR GGEGARRSDTMAGGGGSSDGSRAAGR RASRSSGRARRGRHEPGLGGAERGAAGE ARLEEAVNRWVLKFYFHEALRAFRGSR YGDFRQIRDIMQALTFFRGTLQSSKQE LSLDLSSSESIKNIQVNITYSLRSRDCANFD ILYDIKPF*
7085	15136	C	7768	97	408	MKTKVQPRLTVRVARNCSPKNKAHDNK QNWSWEEDSQITEPSAGLNSSQEAVSAP PSKPTVFNQPLPGEKNPKYEDLLCRNFG AGWWSWLGLVLLPGIKETFS*
7086	15137	A	7769	1694	1866	PLIACSFLLFLFFFLRQSLGSVHPGLGV QWRDLGSLRPPFGLTQFSLSLPRSWN
7087	15138	A	7770	106	317	CSAETEREIGRRK*CIQESSPSPLSIKKCP ICKAD*YL*SHLGATADAAPLQFQLSSL*Q DLPSYREADL
7088	15139	A	7771	321	449	
7089	15140	A	7772	2516	2717	FVKSKALAFFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPPRFKRFSLSLPSSWD YRCVPQCPAN
7090	15141	A	7773	3	282	
7091	15142	A	7774	1	1126	MRPGSLTDVTLEPRSEGGKEKSIPERRNG PCKDPGAAACKLCLTSVLFATNRHMYL HNLLLRQGVSRASRQSALTQSSGTPAMY QCSKTYIFQGIQVDYQEVTHTGPLSIEG SMLDIKYIVNRGEHKNGVLEEAIATIL KEVLEGLDYLHRNGQIHRNSRKELNDIR FEFTPGRGPKGNDGECDEKHTTVLMRV EQQWDHTERKTQTQMSTEAKVNDTAD GVSQELFSAGLVDGHDVVIACPSRNLRL FIGIISTFPGAQAKTLGIVLDFSHTSHPT HLNVPRILPLLITISHPITFQAPLNSQLSSCI HPFAAIPASVLASLPVLISTARDPGTSH YSSALGFIGQIPAYMELSPVIGELCLSK VTE
7092	15143	A	7775	2	1622	
7093	15144	A	7776	1	698	MAAKLVGIEFDPCWVKMLMEKGHQKT REHNYPSMEQSEKAGVTDNIQGTKAL AGSRQSVANGKNSHCKENVTWLLIHYV QPMKPYEVFWIEFVTHQKATKYLQCLPT TSPDAVFPFGELLAELLKIPFVYSLRFSPG YAJEKHSGGLFPFSPYVPVVMSELSDQM TFIE/RGRPTTLSETMAKADIWLIRNYWD FQFPHLLPNVEFVGGLHCKPAKPLPKTL GHGWDRAP
7094	15145	A	7777	1	1584	

7095	15146	A	7778	2	1627	AATGKQALHCIRMSMKWTSALLLIQLSC YFSSGSCGKVLVWPTEFSHWMNIKTILD ELVQRGHEVTVLASSASISFDPNSPSTLK FEVYPVSLTKTEFEDIKQLVKRWAE LPK DTFWSYFSQVQEIMWTFNDILRKFKCDI VSNKKLMKKLQESRFDVVLADAVFPFG ELLAELLKIPFVYRPRFSPGYAIEKHSGG LLFPPSYVPVVMSELSDQMTFIERVKNMI YVLYFEFWFQIFDMKKWDQFYSEVLGR PTTLASETMAKADIWLIRNYWDFQFPHPL LPNVEFVGGLHCKPAKPLPKEMEVEFVQ SSGENGVVVSLSGSMVSNSTSEERANVIA SALAKIPQKVLWRFDGNKPDITLGNTRL YKWIPQNDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVP LLADQPDNIAHMKAK GAAVSLDFHTMSSTDLLNALKTVINDPL YKENAMKLSRIHHDQPVKPLDRAVFWIE FVMRHKGAKHLRVA AHDLTWFAQYHSL DVTGFLACVATVIFITKCLFCVWKFVR TGKKGKRD
7096	15147	A	7779	1	187	SGRPFFFFGLPFLFFFFF*DRVSLLLPRL QCNGTISAHCNLC L PGSSDSPASASRAE LP
7097	15148	A	778	213	500	SKRCLSLGRGASSLEAAEHLSCCPQADG LSRSPQWASAPPRQLLSCPSAGRGPQL ARSPGSRRGPVWPPQGPQHSA LTI*AP AQRKRRKNG
7098	15149	B	7780	436	711	DVYKIGGIGTVPVGRVETGVLPKPMVVT FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSVKDVRRGNVAGDSKND PPMEAAGFTAQ*
7099	15150	B	7781	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*
7100	15151	A	7782	3	523	FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSVKDVRRGNVAGD/SKND PPMEAAGFTAQVILNHPGQISAGYAPVL DCHTAHACKFAELKEKIDRRSGKKLED GPKFMVPGKPMCVESFSDYPPLGRFAV RDMRQTVAVGVKA VDKKAAGAGKVT KSARKLQKAK
7101	15152	B	7783	32	188	MVVT FAPVNVTTTEVKSVMHHEALSEA LPGDNVGFNVKNVSVKCVIWF L ASPX*
7102	15153	B	7784	60	209	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQ*
7103	15154	A	7785	3	313	
7104	15155	A	7786	13	555	
7105	15156	A	7787	3	366	IGY/NPDTVACV/PILGWNGDNMLEQSAN MPWFKGWKVT R KDGNASGTTLEALD CILPPTRPTDKPLRLPLQDVYKIGGIGTVP VGRVETGVLPKPMVVT FAPVNVTTTEVK SVMHHEAQKAK
7106	15157	A	7788	1	513	EAGISKNGQTREHALLAYTLGVKQLIVG VNKMDSTEPPYSQKRYEBEIVKEVSTYIK KIGYNPDTVAFVPISGWNIACKFAELKEK IDRRSGKKLEDGPKFLKSGDAAIVDMV PGKPMCVESFSDYPPLGRFAVRDMRQ TVAVGVKA VDKKAAGAGKVT KSAQK AQKAK
7107	15158	A	7789	1	1099	
7108	15159	A	779	1	615	

7109	15160	A	7790	1253	2560	SLVMLPLFDMVPGQAHVLLRASQDYPPF GSLCWFVIMRTDSCGWVSIKSSGQKRLL ELIDAPGHRDFIKNMITGTSQADCAVLIV AAGVGEFEAGISKNGQTREHALLAYTLG VKQLIVGVNKMMDSTEPYSQKRYEEIVK EVSTYIKKIGYNPDVAFVPISGWNGDN MLEPSANMPWFKGWKPTRKDGNASGT TLEAVDCILPPTRPDKPLRLPLQDVYK IGGIGTVPVGRVETGVLKPGMVVTFAPV NVTTEVKSVEMHHEALSEALPGDNVGF NVKNVSVKDVRRGNVAGDSKNDPPME AAGFTAQVIILNHPGQISAIGYAPVLDL HTAHIAKFAELKEKIDRRSGKKLEDGP KFLKSGDA/APLVDMVP/GKPHVCLRSFS DYPPPLGRFAVRDMRQTVAVGVIKSS/V DKAAGAGKVTKSAQKAQKAK
7110	15161	A	7791	39	362	AEKWARNMPFFPDLQMTDQVSLRLTLW SELFGLNAAQCSMPLNEA/PLLAAGLQ AYPMSADRRVAFMDHIRIFQEQAQKFR LHVGSPEKQCLKAIVLFTSNTWGRG
7111	15162	A	7792	19	384	FISSIKFIMSFNFTSLFHFISLQGFISSHYI SSK/SHFISFHVISSVHLIFSSHHFMGSSQ LFSSDHFIISCHRFMSYLLRSVQFHFNISF HYFRSSHLITSCHHSSCNQNSSSSQHIFIS
7112	15163	A	7793	16	450	TQGS HQSPPPGS/PHAAHTCCPGRGGEA GGTGSLLGQGHTRPAALKDWPGGR PEGHKVRS DPPPGRPASSTVQLKGLSGER DGCPLRRGPGPHRAEGSPSRALRPPGTR GNTATRTPVSSGMRAASCQAWRNEVRS LMVQAP
7113	15164	A	7794	1	427	
7114	15165	A	7795	1	330	
7115	15166	A	7796	3	1229	SPPSPLAPGLASQDSRPVFPSPTPAMAAVP TQPQSKEGPWSPESPMRLITAPLPPGP SMAVPTLGPGEIASTTPPSRAWPTQEGP GDMGRPWWAEVVSQGAGIGIGTITSST ASGDDEETTTTTITTTITTTVQTPGPCSW NFSGPEGLDSPTDLSSPTDVGLDCFFYIS VYPGYGVEIKVQNISLREGETVTVEGLG GPDPLPLANQSFLLRGQVIRSPHQAALR FQSLPPPAGPGTFHFHYQAYLLSCHFPRR PAYGDVTVTSLHPGGSARFHCATGYQL KGARHLTCLNATQPFL/WDLKEPVCIAA CGGVIRNATTGRIVSPGFFGNYSNNLTC HWLLEAPEGQRLHLHFEKVS LAEDDDR LIIRNGDNVEAPPVYDSYEVEYPPPPPL QPHYHRVSV
7116	15167	A	7797	110	342	FVLFPTKVYEGERAMTKDNNLLGKFELT GIPPAP*GVPQIEVTFDIDANGILNVAVD KSTGKENKITITNDKGKEA
7117	15168	A	7798	1	335	NFCTREDHQYAPLDPKHGHLPPRMPPSE RLMAAEAAFYSPPYHDRPTNSEGWEHT GLYESFRAKLRSPPRRKGPEKRNSGSPSR NRKSRGRSSSRNSNRSS*SSGSYSRS
7118	15169	A	7799	110	409	
7119	15170	A	78	226	481	CLAHSRHSINISTCTGAEGHESESFSYWG TRGPSATMACDGLTRTGHSPPSRARSPP LLCARSLTKAACQ*AVPVTWCHCWRPQ G
7120	15171	A	780	140	459	RSSLLPCLGLWTHLIPVKVRDSLGPFAFR GEKADMPVLYDRLLKLMEMLYFKSGTI PMFYG*APRRVYIIGERIHYCGYSVLPMA VEQDVLIAVEPVKTYALQLAN
7121	15172	A	7800	40	621	

7122	15173	A	7801	1	338	GTSFYLYRKGYLSLSKGVPM SHYAGTLL LLLAGVACLGRGIVRWTPHYRKTMTIP* ASHRNQSSKYPRHVANYNCDFRSWPDD FHCDEPITRNESQGGPIRRSVHTASPKPM
7123	15174	A	7802	1	390	ILDCHTDDSGTYRAVCTNYKGEASDYAT LDVTGGDYTTYASQRIDEVPRSDFPCLT RTEAYAVSSFKKTSEMEASSSVREVKSQ MTETRESLSSYEHSASA*MKSAAL*EKSL EEKSTTRKIKTTLAAR
7124	15175	A	7803	3	235	VNSAEAEAEQANTNLSKFRKVQHELDE/ AVALPHFDLLIQLVLHLADEAEERADIAE SQVNKLRAKSRDIGTGGLNEE
7125	15176	A	7804	2	561	MRPHRLDEAEQIALKGFFKQLQKLEARG RELENELEAEQKRNAESVKGMRSERTP SKELTYQTEEDRKNLAAACRTLVDKLQL KAKAYKRQAEAEQSPTPNLASKFRKV QARAGLRAEERADIAESQVNKLRAKISR DIGTKGLEMKELAFATSLNLAPPLGRCP ANAPCWSLCSNFLGREAE
7126	15177	A	7805	3	303	GRRPPALIDSRSPSPASPPTQ*CRPPSFPGP APPPRLWLAPPFCPPPPHGYGPFPAKR RGAALGLTRVLPSPGSAVRRSPGPGGS ACDKVFRTTSR
7127	15178	A	7806	190	389	RRTYTSHLLACLRLQGLAFSPRLECGGKIR AHCSLQLYGSSDPPT*APQTAGTKQHNQ RIAQCNA DN
7128	15179	A	7807	3	271	FFLRQSHSVTRLECTGAI*AHCNLCPLGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGQAVLELL/NLMICPPQPPKVLG LQA
7129	15180	A	7808	610	923	FYLSEAEFFFFFETES/HLLSPRLECSG MMSAHCNLRPLGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7130	15181	A	7809	487	796	LSIFFFFFFEGRGAIVANVSLNFPGSKKPP PSLSKEPGTTGAAPPREIFFPPKKTRLGFA LHPGSPPPGPWAPLWSKGEKV GILKKH KVGRGRGFSPVSPFF*KPPPSLSKEPGTT GAAPPREIFFPPKKTRLGFALHPGSPPPG PWAPLWSKGEKV GILKKHKVGRGRGFS PVSPFF
7131	15182	A	781	595	1060	ARFLPKYQSPTGPHPSFNAFLSLGAMCV LPRPNFHS LAVRSPVPGGPAPLVPGKE* EGLGVTSQSRPDCPSMSGTPRCRS*LRP AAGRGCSPLLGGCPWTVTHPLRTKAGC TLWAQQPVVLPVGGEGPRCASPVAVL GFSPCALCHLDPPVK
7132	15183	A	7810	1	340	GTSQVLTLTIAEV**NLG*VGCK*CKHTE AKRMPCAEDYLSVVHEQICVAHENTPVS DRVPIRCPESLAIRLPCFSALEVDETYGD* EYNAEAFTLHADICTLSEKERPIKKQ
7133	15184	A	7811	3	337	IESSLHQVESMHGAGNAKKNWQ/RIQEH FFA TFHPLKDYCL/EGTNLVEADNQA WTDVQKKIIPWNSRVSDLDL/ELLQDR AARLGK\SISR/LIRCGPSLHSDKPTNFRE G
7134	15185	A	7812	3	926	YGEENLKTSICTFLAVLSHLDITQNIPEK KLILKQALIVVLQWCFNHNFSVRLYALV ALKKLWTVCKVLSVEEDALTPVIESSL HQVESMHGAGNAKKNWQRIQEHFFAT FHPLKDYCLETIFYILPRLSGLIEDEWITD KFTRFTDVPLAAGFQWYLSQTQLSKLKP GDWSQQDIGTNLVEADNQA EWTDVQK KIIPWNSRVSDLDLELLFQDRAARL\GKSI SRLIVVASLIDKPTNLGGLCRTCEVFGAS VLVVGSLQCISDKQFQHLVSASAEQWLPL VEVKPPQLIDYLQKKTEGYTII

7135	15186	A	7813	3	360	ATCSSDQSVKVDKSESGDWHCTASW KTHSGSVWRVTWAHPFEGQVLAFCFTD RSSAVWDEILSESRDNL*GHTHWVKRTT LEDSIVSATCV*SFLSHVGIMLLSCGTFPP ACICGVFP
7136	15187	A	7814	9	305	SHLLRSLRQENRLNPRGGGNCQPRSGHC TPAWATRAKLHLKKQTNKMLANLIQQH IKKVIHHYQVGFTPGMQG*FNICKSVSVI YHINRTTHKNVAAAA
7137	15188	A	7815	3	217	AASTMPMSFEWQRQ*RFPFYTLPNVN TRQKQLTA*CSLVLSLCRLHKQSSMTLIK TRLTSDSITVMLDC
7138	15189	A	7816	15	335	QHFWERFHVTKDRINTVERQETDWKIFA TYLMKKV*ISRKCYNYSKLVRRKQLNR KWAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRAN*RYYLSPISLAKSNKLN
7139	15190	A	7817	1	331	GLIEILVIYVSDTPVK*DV*SDIFEQ*AYG KIDGGNDVCDLQSSEGTNTMKNNNEEM MIGEAMDETGHGETENEGISTKTSKPD EAETNMLIAEMDTFVCDTVMSTEG
7140	15191	C	7818	51	200	MSTPXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXX*
7141	15192	A	7819	3	219	MLAGCSRTPELR*STHCSLPKCWDYRRA HNAQPFLTIN*RSETRRSL*F*IMWLPLE FLGFPLESQQGCTA
7142	15193	A	782	71	237	EQPGMVTHTCNPSTLGGRGGWIT*DQEF KTSANMVKPCLCWRYKKLAGHGGAC L
7143	15194	A	7820	1	358	VHCLVPDLLQSNNPCYWGVMDKYAA EALLEGKPEGTFLLRDSAQEDYLFVSFR RYSRSLHARIEQRNHNFSFDAHP*VFHS PDITGLLEHYKDPSA*MIFEPLSTPLIRT FPFCL
7144	15195	A	7821	260	481	LILKFV*NHKIPQIAKTILSKENKAGGITL PDAKISCKAVVTKTALYWHNTRHIEQW NRIANTEINPNICNQLI
7145	15196	A	7822	1	306	VKAKAKKLQIQPIQLELLYCSYDMQEED FAHRAMDYFPKIENNLSTRMDHNVSSF CIENWHQLESLSLLILHNMPHYEEDFEFE GLRLDMVQ*RLTSCSDAG
7146	15197	A	7823	3	396	SSLSSLSSSVSVTFGFGTFPSAVSSSIDG GLALAFSSSGLSTSFSSP*SHSSSSPPVPP LSSDTRRSTSPADMAAPSAT*TRRSTAPS NPFPSLAAPRREKGGNPPTNERRKLETPI PGRRRQRRQR
7147	15198	A	7824	3	344	HEHECYAKVLYELKPVGEEPQNVSKQN CDLFEQLGQYEF*NALLVRYTKNVPQGT TPALGQVLRNLKRVSSKCKHPEAKTM PCAEDYLSVILNQLCALHDSRAVSDRVS RCWT
7148	15199	A	7825	1	413	RAGYRQKWGSLATVIGQLGLPSGGLV WPQRRREGHRNAHCSELVDDLHVITQ NRANHRPRCGSLLSELKFAPLALQPGR QSKTLSQKKNKQTTTKKNTKKQPGSVA HACNPSTLGG*GRQITLPSGVRDQPGQH
7149	15200	A	7826	37	363	ASDWNQDRARGRGQGGCETRDSSEQSQ GTNGQPPAEASKDSWSSGGKMAR*APSP QRQKAGYPGSPSPQAPASMRSLGPPQF QEPPQALFPLEVPIPSPHTRNKMAR
7150	15201	A	7827	3	354	HERAFLNNSCFL*AFDPYQCDRYLFKIV TDVYYTPYVLIYYI*APLPLLQLTHTHF LSLFFL*VLNIYALVYLSTALPLSLFISISS PRYSLCLFFHFLSLMLFLSSLSMYCSHY
7151	15202	A	7828	2	269	ARVAPLKGVEQEVREHEGEVTKPEKEK GEETRIENGKLIVVSDSCGRVYVSGKIYY PM*AYNDGLILERYQIMPIDIIVSYVFIMI

						CLD
7152	15203	A	7829	2	350	KDIRVGHRQNRALPPQASPTVAPGQPT ALPPTGHSGPTMGWPSRSLQLSLITAPTS ASPTVVKLPSGACWPLSSTFASSPLSLVQ *P*NSDSHDATSAMAPSSSRECLSPWPA R
7153	15204	A	783	236	404	EDGHHSGLHSKQKQPAWPSMVTHTCN PNTLGGRGGWIT*GQEFETSLTNMEKPC L
7154	15205	A	7830	2	376	SHCLEPKDIRVGHRQNRALPPQASPTV APGQPTALPPTGHSGPTMGWPSRLYQLS LITAPTSASPTVVKLPSGACWPLSSTFAS SPLSLVQ*P*NSDSHDATSAMAPSSSRE CLSPWPAPRA
7155	15206	A	7831	176	379	SVTDHPTIYCNLSPPNPGPSDPDPVLPF VVMTDYLLP*CVICCCFLSDPPHCSHPV GGSFFGIN
7156	15207	A	7832	1	344	NSGRVSGNLISPLPPGPPGPRPLEEATP VLLSQGIPEREDSFRNLRTDLYIHLKS* DSPEISSLCQGEATPRHSDKHNS*NAAS EGKGCGFPSPTMEVEIASHDEEDVIHS
7157	15208	A	7833	355	535	PNRPITGEVTTKNLTKKSLRPDGFDTFC *TFKEGFIPTLLKTVKEGLHPTFLYEASIT L
7158	15209	A	7834	61	250	RSRLCAPVRESHTYLIMPLGCC*FFLYYI FFGFFSVVFCLLSFYSPFFSVSSVSF*F WVF
7159	15210	A	7835	3	66	DAWEKKICETEDWLFEIHHQRISSRMKR NKEQLQDV*NTIKRTNIRIGVIEKREKG RKLI*EIMAENSPNLGKDMSIQVYEAQRS PYRIHSKKTSPPKHMIKLSKAKSRR*IRG
7160	15211	A	7836	3	146	HMVAGAVAGILEHCVMPIDCVKTRMQ SLQPDPAARYRNVLEALWRIIRTEGLWR PMRGLNVSASCAGSAYALYFACSD*LTQ LPAIAMCWPRSGGL
7161	15212	A	7837	2	329	VASGRRKNLLSKVTGLEVPEGSTPDRPC SGRQSLNPPVTSFPNPSQRNRTPPPTTRQ MATL*EALHGSHLPPPGRACRTSSPGPR TTRPQVSDRRAQSPTS YVGP HRP
7162	15213	A	7838	2	356	EAGAHT*ITMKNQRLKETVDDTVEVSD FTVSRNAHEAFNTAFTTLAACAASIG*V LLYLTLTTCPC*CKTKRQNNMLHQSNA NSSILRPGPASDASADERNACARKRAVL LEPLKD
7163	15214	A	7839	3	264	
7164	15215	A	784	2737	2915	KNVVHTHQGILYSHKKEQD*LGVVAHT CNPSTLGGRGGWIT*GQEFETSLTNMVK PCLY
7165	15216	A	7840	42	226	
7166	15217	A	7841	1	507	LQLEAEEQRKQKKRQSVSGLHRYLHLL DGNENYPCLVDADGDVISFPITNSEKTK VKKTSDLFLEVTSATSLQICKDVMDALI LKMAEMKKYTLENKEEGLSDTEADAV SGQLPDPTTNPSAGKDGPSLLVVEQVRV VDLEGLKVYVPSKADLATAPPHVTV VR
7167	15218	A	7842	51	340	PILVYRPDVPD*VAKDYASFRNYT*GPLL DRVFTTY*LMHHTQTVDFIRSRHAQFGG FSYGKMTVMEVEDLLDGLMDESDPDNL FLKSFHA*KIAY



7168	15219	A	7843	44	1352	KMLYKNFIMQSQELTALWEAKVHPAML GLDELGRSGCGHCTQADLRFGDAAGRD PGQDNDNRNTAEPAPPPPPRVMAAAAAL RAPAQSSVTFEDVAVNFSLEEWSSLLNEA QGCLYHDVMLETLTLISSLGKRQTLHTR ERPYESIECGKAFAEKSSLINHRKVHSGA KRYECNECGKSFAYTSSLIKHRRHTGER PYECSECGRSFAENSSLIKHLRVHTGERP YECVECGKSFRSSSLLQHQRVHTRERP YECSECGKSFSRLRSNLHQRVHTGERH ECGQCGKSFSRKSSLIHLRVHTGERPYE CSDCGKSFAENSSLIKHLRVHTGERPYEC IDCGKSFRHSSSFRHQRVHTGMRPYK* SKFWKFSFCPGFLLLQGGQVHTGSRCEC DKWGIFFS*NASFFT*KSAPEEVPFECN ECEKAFSPSLVT
7169	15220	A	7844	2	353	NLLYQFWIHTEVINNLPLELILNTRSHH RVHDGRNRYCIDKNYAGVLIWDKSFGT FEAENEKVYGLTHPINTFEPIKVQFHHL FSIWTTFWATPGFFNKFSVIFKGP*WGP KP
7170	15221	A	7845	3	386	TVRVCACDHHGNMQSCHAEALHPAGL STGALVAILLCIVILLETVVLFAALRRQR KKEPLIISKEDIIDNIVRYNDEGGGEEDTQ AIDIRTLMPVPI*DTHLRRCFAP*TSLYY HRATPTRSCYHP
7171	15222	A	7846	151	352	YCCTYYIFVLFIP*SSCGLTLFITCILFGSI SFFLFFITVFSIIVTTFKFRLLYSIIFLSYLL C
7172	15223	A	7847	2	265	VKPSP*PLTGALSALLMTSGLAM*FHFHS ITLLILGLLTNTPPVQKGLRYGILFITSE/V FFFAGFF*AFYTPA*AYPQLGGTAQQDT
7173	15224	A	7848	1	156	GIRHEAYHIVKPSP*PLTGALSALLMTSG LAM*FHFHLKKKKKIGSSFIAGV
7174	15225	C	7849	512	778	MTSGLSHVDFTSNSITLPHTRAYXTNTL NHIPMMARMLTRRKAHTKGHHTRTCSK KAFRYGDKSYLFTSGSFFSSQGFILPFLP LQA*
7175	15226	A	785	361	710	DLFWLF*MDKFLDTYTLPRLNQKEVK
7176	15227	A	7850	15	613	LKTTHLLFQVSVGQESRCGLAKSSGSKS LTRVKVRGQPRLWCHLKAQLGKDLLLS SLTWLLAACGSSPVVGLWASAPGLLLAS HHPRFSATWVFHKVAHNTAAGFMSTGK QEG*RDKITAKQKFASYNLISEVTTHHFL PYSIYEKQVTRSSPHTKERDSPRG*LSEG KDHWEFPQKLPAVDVIALFYENKHQTH YIHL
7177	15228	A	7851	66	355	KSMTDGHIQTVTNIRQLPARTLYTHWPR EFSP*SPPLERMHTRGARREAROKAPRIR DKRRGKSRVHCLGEELANGGGWDRIRW GKGERQGDSGRV
7178	15229	A	7852	3	358	HASAHASGQGGDQLERDHEN*DRFVRQ VVGINNYRISEESGHPYNIFGKIFHDCAD LDTSEH*LCKCDSFDKTLKPTINLVSYNR NFA*TNIDENFRCGKSPSYSSCYSKHEEL HNGM
7179	15230	A	7853	79	413	LSKGTGRKRDGLTLPAHPKAKTDPAAAP QGQPGVGVRRSPPCPG/QREQQSAGSP GWMGGGCPVPS*PLKGQNPSPSSLGG SKGSFFSPDPAPVARGRRVRGEERGQVR E
7180	15231	A	7854	171	173	LTAEACLSFSPSPSSLGVSGCPHHGGLG PAHPSALPQPPGCIFEAAPPRALT*PLSS PLTPAPGHCRIRRGEEGASAAFGCLGT GLVLSFEDDHLQD*GQAHTQSQPGASP QTLCCFRGLGHAGELLTPTPTVQPLFPE SASKWPQLFGPRILPGPPKGSPTTKAWPP GVCGQQLPLVKGHPG*PSPASGRSRCEV SVPSCPVVI D LGWGL APAGCPSQHWB

						SVPSCPVVLPPLGWGCLAPAGCRSQHWR D
7181	15232	A	7855	27	263	FHCFISNF*VANRSSLLIDFSVGLLKCKS FIFFNAILHYCLMMVCEYDSLFLSYM LLIFFYFYIYIFIYLLFIHPY
7182	15233	A	7856	92	354	VLNSI*SGNQKSYANVYRLLYLDPIPKI YAEAYTP*NVNSTNLETKSPKTIQKFPED REFKNDFFEKTKNGDRETGAHPFLLFL V
7183	15234	A	7857	464	2848	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQPWGHDPDVHIMQHHVLPQARLG SIAEIDLGVPPPVMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLDGERK TNDKDEKKEDGKQAENDSSNDDTKKKS EGDGDKEKKEDSEKEAKKSSKKRNRK HSGDDSFDEGSVSESESESESGQAEEEEKE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEIIISLCK RYPGFMRVALSEPQPERFFRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNW DLTRVRNINGITQHKQIVRNDIKLAACL IHTLDDRTQLWASEPGTPPLTPSLPSQNPI LKNITDYLIEEVSAEEEEELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEEVRKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTPGLP YPHQTPQGLMPYGGPRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDLD APDDVDFF

7184	15235	A	7858	1073	3541	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPPVMKTFKEFLSLDDSV ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGA/ QNRLRVFLSLMETGWFDNLLLDIDKAD AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLGDE RKTNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKKSSKKRN RKHSDDSFDEGSVSESESESGQAE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEII LCKRYPGFMRVALSEPQPERFFRRGWV TFDRSVNIKEICWNLQNRGARSLINRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRRVNRINGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAEEEELLGSSGGAPPE PPKEGNPAEINVERDEKLIKVLDKLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFV RKHIFNKHAEKIEEVKKEVAFFNFLT AKRPALPEIKPAQPPGPAQIIHVPVRVVL PPGLTPGLPYPHQTPQGLMPYGGPRPIL GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDFF
7185	15236	B	7859	145	226	MAVNCSEMRLKSSWNGCAIANEGDCHL EATSICSSFSMDMLGEFRHCESSILLAST AX*
7186	15237	A	786	2	424	
7187	15238	A	7860	136	1559	ILTMREIVHIQAGQCGNQIGAKFWEVISD EHGIDPTGTYHGSDQLDRISVYNEA TGGKYVPRAILDLEPGTMDSVRSGPFG QIFRPDNFVFGQSGAGNNWAKGHYTEG AELVDSVLDVVRKEAESCDCLQGFLTH SLGGGTG/SPGMGTL/LISKIREEYPDRIM NTFSVVPSPKVASDTVVEPYMATLSVH QLVENTDETYCIDNEALYDICFRTLKLT TPTYGDLNHLVSATMSGVATNCLRFGA QLNADLRKLVS/VNMVPPRLAHFFMPG FAPLHQPVESQQYRGSHKCRELTQQ/VSF DAKEH*WAACGPPATGRYL/TVAAAFR GRMSMKEVDEQMLN/VQKN*QLTLWE WFPQQCSRTACLFTSQPRGPSRWAVHLS LGNRHSHSRELFQSGIFGSSFTWPCFRK AF/LFW/YTQGEHGTEMGVSTEG*EA TLNDLRL*SIKQLPRMPTQEEEDFGEEA EEEE
7188	15239	A	7861	2	304	ARGLCPLGYTGLKCETDIDECSPPLCLNN GVCKDLVGEFICECPSGYTGORCEENINE CSSSPWLNGICVDGVVCYCTFV*GFCI FKFSCSSCPLYTI
7189	15240	A	7862	1	345	GTSGTSRFL*DVLMQNDFGTRWRFYAT VIYQKPQLKSLILE*RETWVLGTDGTLQ TKEEKDPRLRKTLLVYVAPLLVLGSDVL EALSGAAPRLRLFLKDAIRDQARIGRAERT VL
7190	15241	A	7863	2	343	VRSAYPRLLENLAGQRRHHLCHPLLP AGGARAPQPPQQLGARPGPGRCRM RRRPQAPRAGRGAALARAL*PLSSTASR RGACPGAAPSDSPEDPASDHGHSPLGG RC

7191	15242	A	7864	1	338	QIDEIVTETLLTEAERGAKVYLTTGYFNL TQAYMDLVLGTRAQYQILLASPEVNGFF GAKGVAGAIPAAYVHIERQFFNDECSL* QSRVQLSEYWRCSGRSLSMFVRHDI
7192	15243	A	7865	174	361	
7193	15244	A	7866	1	1259	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSLLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYFILSSDIPISTEN*T SYG*SVANLLILGILEACLLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIIRL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKKDSKEEYICQ LPRDTNIDDFGTVPRSRYPLVALLTSLDE DDREIYDIISMVSVIHPRDRTYKLSRILY QYLLLAQGGQFHDLLKQLFMSANNFTPS NNSSSEKNTDRSLLEKVLSESEVEPSE ENSKDCVVCQNGTVNW
7194	15245	A	7867	106	387	
7195	15246	A	7868	2	766	
7196	15247	A	7869	149	420	CGTDKTFWSTVRENLSYSEILLSRR QICKNKNDPPGDRD*FDYSRSDYEHRR GRSYDSSMESRNRDREKRREERDTR KRSRKSP
7197	15248	A	787	1	462	
7198	15249	A	7870	1	443	GQDSRSRDNGPDGMEPEGVIESNWNEIV DSFDDMNLSESLLRGIYAYGFEKPSAIQQ RAILPCIKGY/DCDLYETLTITQAVIFINTR RKVDWLTEKMHARDFTVSAMHGDMQ KERDVMREFRSGSSRVLITDILLARGID VQQVSL
7199	15250	A	7871	2	363	ELDTLCDLYEP*PSPSIIFINTRRK/VDWLT EKM HARDFTVSAMHGDMQKERDVM REFRSGSSRVLITDILRIGRGGFRGRKG VAINMVTEDKRTLRIETFYNTSIEEMP LNVADLI
7200	15251	A	7872	3	449	NLQEWKLDTLCDLYETLTITQAVIFINTR RKVDWLTEKMHARDFTVSAMVCLPAA SLLWVCPSEVSYLKPGLPRCLPGLLHI CFLFQHGDMQKERDVMREFRSGSSRV LITDILLVSRGN**QRQKGGSKVIPSPRG HQCLSGK
7201	15252	A	7873	236	533	
7202	15253	A	7874	1	366	AEIRDRSPCGELHVEREEWKLDTLCDLY ETLTITQAVIFINTRRKVDWLTEKHAR DFTVSAMHGDMQKERDVMREFRSGS SRVLITDILLVSRGN**QRQKGGSKVIPS PRGHQCLSGK
7203	15254	A	7875	5	1285	FLRIMSASQDSRSRDNGPDGMEPEGVIES NWNEIVDSFDDMNLSESLLRGIYAYGFE KPSAIQQRAILPCIKGYDVIAQAQSGTGK TATFAISILQQIELDLKATQALVLAPTREL AQIQKVVMA LGDYMGASCHACIGGTN VRAEVQKLQMEAPHIIVGTPGRVFDMLY R/RYLAPKSIIRMLVLNEADEMLSRGFKD QIYDIFQKLNSTQVVLSSATMPFDVL EVTKKFMRGPURILVKKEVELTLEGVIRQF LHQPWNEEEWKLD*CDLYETLTITQ AVIFINTRRK/VWDWPHPRKMHARDFT VSRHAMGDMGPKGNETVIMEGSFRSGS *QSF*LPT*PCWARGIDVPARFSLVINYD LPTNR/ENYIHRIGSTVDRFGRKGVAINM VTEEDK/RALRTL GASYNYSIEEMPLNV ADLI

7204	15255	A	7876	3	378	MDTTPLSYSES*SDEYLVTNM*LQDAFC RGLVKPGLNVLLKGPINAVIDVNGLKQC LA*FKRYLECL*RLDVTLCVP*IGGSDA PLPHNKDHKAADP*DYFQR*MSFYRQA HAAMLAVLPRLHH
7205	15256	A	7877	2	397	RESESCAAADTPALETLSFHGDWEIIEVF NRDLGSTYPDDLAL*MEDVDFEEYEE* GYD*GWVLYPQEGVIGNMEGPDYS*VTF ALHSSSVYRVSLDPKTYTLAVTGGYDD GAFVWLLTYG*LLFE*ASHE
7206	15257	A	7878	3	399	NSQVLLDSPIQLSKITENYECITELSGLLK REQSSTVNASNLENDEARLKAYLENRSE IDSLKTSNPIDL*EASISQAGSIN*SRF*SS GMNKSVDVRIDNFGSIGDRILLTAANVI LAWCRLYGLMRQNV
7207	15258	A	7879	1	424	PVLRVARERSLPGPQEGPHGRASESASPL APSIAPSPPPALSASHIMGSQALRSPET PW*SPWDPPAPLDLVSPWQFPFGPHASA TP*RSPLGLQTPQAPGSWAPHVPATPQA SGLPAPHVTETP*ASS*LAMPVPETP
7208	15259	A	788	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLVTV LAHFGKEFTPEVQASWQKMTGVASA LSSRYH
7209	15260	A	7880	156	312	LFSLACRYHVYPTCRNTSGILGFTVSVVT NAIPFIS*LSSFYTYFLYNFG
7210	15261	A	7881	15	394	FGCLLQGRRLKSHSPWQGPASGRPAQ GKHKNR*RGQNPSNLSHPAPTTPWPGIK CPLPRAGPSLSSLLPGRVLCARPEFPLHG RGLEPSASLLPSALAPSLRGLKGTERR LKADQAWGGWKE
7211	15262	A	7882	2	102	NKILIKTNSRKK*KIE**RDNNQSNNNKN HNK
7212	15263	A	7883	3	397	NFLYTFLYFPNFV*SAHCF*NQKKKNKY FLLREKCLNCFPHLYVAFYVYPSIFNLS GC*YLPSCSIFYVFIPLSHPLFFFLCFSLS FSLPFFLSLFCFFLAFLFHPSFILLDSSA CLLCISCFHL
7213	15264	A	7884	190	339	DGKGLLQVCLPLQDVYKIGGIGTVPVGR VETGVLPKPGMVVNFAFVNVTT
7214	15265	A	7885	377	1073	LQGHLRLTGAVLIVAAGVGEFESWYSPR MGRPESMPFLAYTLGVKRLIVGVNKM DSS*PPYSQKRYEEIVKEGSTYIKKIGYN PDTVAFVPISGWNGDNMLEPSANMPWF KGWKVTRKDGNASGTTLEALDCILPP TRPT*QSPCGLPSSRDVYKIGG/ILGTVP VGPSGRLGVLPKPGMGGSPLAPVNVTE VKICSEMHHGRF*VEALSWGDNVGLSM FQGLLFCSK
7215	15266	A	7886	2	415	SVGDPCPSTASVDQCTIVP*PMEGPLLY RRCIEGVGGIFLWDPQPSSQHPGATPST GEPGFVVHQDLSHIQPAAVVAALNN HKPPVRS*PPSATPEAFT*FSKCDLDEE LSLLRYCHAFSEC*HDIRPSHIHP
7216	15267	A	7887	1	360	TERFGM*GGEAVCLYEPPVSELLRRCGN CTRESWVVSFYLSADHELLSPTNYHFLS SPKEAGGLCKAQITAIFQQGDIFVFDLET SAVRPFVWWQVEAIPVDYLPSCFVMIPT LYCSP
7217	15268	A	7888	152	378	WEGGGSGTILARRFWDLQAYRPHAQVP GFLR*SHLMAVGHAETDLTALTMLILT PEAWQLHTILYLSGLLAMLP
7218	15269	A	7889	302	564	YWLFYDFMIAEKILNGYFCCCC*DRSCP VAQAGELWHERGSLQPRPPGVKQCSYF SLLSSWDRRHVPPHLANF*TFRCRDVSP VLP

7219	15270	A	789	38	485	APSPDA\MGHFTTEEDKATITSLWGKVN V\EDAGGETLGRLLVVYPWTQRFFD\SFGN LSSASAI\MGNP\KVKAHGKKVLTSLGRC HKSTWDDLKGTF\AQPDVNCTCDKLAHV DP\ENFKLLGKCCW*PVFGNPIFGKEFTP EGAELPGQKDG
7220	15271	A	7890	1282	4603	GSLPCLEHVSLNNPLSIIPDYRTKVLQA FGERASEVCLDDTVTEKELDTVEVLKA IQKAKEVKSKLSNPEKKGGEDSRLSAAP CIRPSSSPPTVAPASASL\QPILSNQGIMF VQEEALASSLSSTDLSLTPHQPIAQGCSD SLESIPAGQAASDDLRDVPGAVGGASPE HAEPEVQVVPQSGQIIFLPFTCIGYTATN QDFIQRLSTLIRQAIRQLPAWIEAANQR EEGQGEQGEEDDEEEEDVAE
7221	15272	A	7891	1	286	SPPTVVPASASL\QPILSNQILGDE*VIL VS*ACLLARPARKRGCAVPSPGAEARDT QERTPPARAPGDAELGVRSWENSSTRCF KSQKNITP
7222	15273	A	7892	3	417	PPPLWFNQDPHVESKGLAAGRPVPSTSQ GRTQFRGSAPPKDPLRTPGSANRRVP HTFQPDISFPGSPKPPS*DRPHNP\SLRSP LVSHSVHNQAGR\WAKVQATARERKSDT KSIWLWRWRRILKRTRSNSLYTLHG
7223	15274	A	7893	2	236	KKSNLRMLAEHGGSHL*SQLCRRLRQEN HLISGGGGCSESTSHHCTPAWGTE*DFVS EKKKKKLTGWDPSPGRIKWWC
7224	15275	A	7894	3	254	LECNGTISAHCNLRMLVMSG*FSRLSLPSS *DYRRPRLRPANFCILVEMGFHHVQGAG LKLQTSGLDPLSLPKCWDYRRAHPLA
7225	15276	A	7895	1	185	RQSLALSPRLECSGAI\AHCSLEPLGLRQL CCLSLPKC*DYRHEPLSLACLFLFYPPEH LT
7226	15277	A	7896	1	182	KLVGLEPVSTYSIRVSAFTIVGNQNSFN VVKFTTQESG*IQFLSLKCFLYLTPFFSF S
7227	15278	A	7897	4	329	AGEGGLQALILRDGAWPQPPSGD*QVKG LELTPAPAGSSQGGPGPPPIASSPVGQS KTDATTTKVGPVGGGQPAPMHQQLPP SPGDPAEDAHTWGERSLSGMKGK
7228	15279	A	7898	115	408	HWKERGSLYPA*TQGSACVLPQGHL LPQATPPTTAHLVPPQHCRRPGAAPAP* QGMSTPTTATLFSRLQGRQLPMPGAPSG QGPWLYCRGEGPRA
7229	15280	C	7899	128	253	MNSPDWELWQDNSPQDSCVLIPRTCDH AASRGRRDSSGVIE*
7230	15281	A	79	421	899	IASLFLIVKVEEVSQTAIWKKKKCDEYIP GTTSLGMSVFNLSNAIMSGILGLAFAL ANTGILLFLVLLTSVTLLSIYNLLLICSK ETGCMVYEKLGEQVFGPQGFVIFGAT SLQNTGGKKNMLFFT*LEYTHTSFFSK WLFVRLLLSRSEINLLFI
7231	15282	C	790	128	274	
7232	15283	A	7900	856	1071	SFALVAQAGVQWHDLGSLQLPPFRFK*F SHLSLPSSWDFRCPEPYWLFVFLVETGF HHVDQAGLELLTSGD
7233	15284	A	7901	87	395	RSGGGVPPRNPPPLGGRGGGFPQGGPFI TLSPKGKPLFFLKSNFPG*WAPPLKPPF KGG*TKKIFLTLEGGVPINGNPPPPPPGG KNFFSKKKKKKKKK
7234	15285	A	7902	28	403	GGTIYGNCVVPATVPAGSPGVPVAVGGQP GPLPVL*RTSPETCPPLGVTTGSLCLAPY HLSFSGGHGLPGTPREAG*REGGNSLQL QLPNPKPFLPSRPEDPTWSPSSQGEELRR RKVRCDLKSLT

7235	15286	A	7904	1	609	SHKTNVQQCYCYCGGPGDWYLMKMLQC CKCKQWFHEACVQCLQKPMFLGDRFYT FICSVCCSGPDY\LKRLPLQWVDIAHLCL YNLSVIHKKKYFDSELELMTYINENWD RLHPGELADTPKSERYEHVLEALNDYK TMFMSGKEIKKK\KHLFGLR\IRVPPVPPN VAFKAEKEPEGTSHEFKLKGRKASKPIS DSREVSNGI
7236	15287	A	7905	440	608	CVKLFLDTSQADTPKSERYEHVLEALN DYKTM*VDLFYVSL*GRHLVSIRNNGIV
7237	15288	A	7906	49	796	SHFIYFLTIIWISLVNEVC*SSPIFLMNLQ VVLYIFWLLLLYELCCRIFSHFVCLFTM FINIVTF*F*YLQIIVFLYG*LGFFYGYVK NIVNILLHAL*FCLSHFGFIPLGTIFNI*Y EVIFLL*G*SVVPALFIEKKQKQKTFLL LL*SAFSVYVWQYMQRSFMGSLLYWFF SCANVHSLHYFMIFKKIFDI*YQSPFTSLL FINSLWLFLVLCSSLYLEIAYHVSLLKAE HIENLIGVAMNL
7238	15289	A	7907	178	565	KGGATCPESPQDRKRRGNLDMEKLYSE NEGMASNHGKMENE*QPQDQRKPQVTL YSGRQEVRRKRGKDRKQGQNR*GNV*R IKGKPESEGEAKEGKSEREGESEMEGGS EREGKPEIEGKPESEGEPL
7239	15290	A	7908	3	413	VTGVLVYLAVERLISGDYEIDGGTMLST SGCAEAENIIMG*TLHQSGHGHSHGTTN Q*EENPSVRAVFIHVIGDFMQSMGVLVA AYILYFKPEYKYVDPICTFVFSILRLGTTL TILRDVILVLMEGTPQGVYFTAV
7240	15291	A	7909	119	427	LESLSHKRSSPRHIVIRLSKAKTKKSVLR AVRQKYQITYKRTPISLVDCSAQTLQA RRDLGPTFCLLKNNNQPIILYPVK*SFIN EGKIVFFREISPERIC
7241	15292	B	791	72	524	LPAPPGRIKRADLATRPSKVIRVRRGGRK RPVPKGATLRKPVHHGVNQLKFARSLQS VAERAGRHCALRVLNSYVWGEDSTY QWITKPVHKKHREMRGLTSAGRKSRGLG KGHKFHHTIGCLAGQLGEGAILSSSTVTA NISKVCKIHT*
7242	15293	A	7910	13	235	DLINKISKAAGYKINTEKSVAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYLGINLTKEV *ELYQENFETLMKGI
7243	15294	A	7911	39	141	LSIRGLNIIKQRQL*DWIKQDSTLCCP* EIH
7244	15295	A	7912	1	285	QORRPPGLRPPHPRGQDQLWLKGKGGW AAQL*EGPSGSGRGRGVERERGRRRKGR KGRA*RGTRKAGGGRRETALASLPLRG HRSPQERPRPTL
7245	15296	A	7913	1	452	TAKTTFFRNAHSHKLS*NVCKPVEETQR PPTLQEIQQIDSYNTRKNCGLGMKLRE DGTYTGFIKVHLKLRRPGTVGIRPQSI YDAIKEANLAVTTDKRTSFYLPDAIKQ LHISSTTVSEGIQGLVKKFNGVDNPQKV ALFKRIHK
7246	15297	A	7914	1	484	NVLCGNNQISDLGILLPEVCMAPEEKGD KDDQLNKETEDYLNLSFEGFLKVTEDSL SYEDNQDDSDLLQDLSPEEASYSLQEN LPSEDESCLSDDLAKRIEIAEVVPTGLV SILKKRNDTVGDHPAQMQHKPSKRRVR FQEIDDSLDQESLFGDGDAL

7247	15298	A	7915	2	1121	HYATDRFPFVRILLYYTYSYVPSFPS YTKCCFEFLTIFYSSLESKTCLGTESSKE SQHTVEPLGSSPCCHQMDVQTDSPSLSV TAGKDHMEELLCSAEATLALHTQSSETA GSPSGPDSSDACEDDSRQLAQTEACQ DVARIEGIAEDPKVFLSSKSKTEPLISPGC DRIPPALISEGKYSQAQRKELRLPLRDAS EALPTDQLENNELNELQQPDLTSDGKS PQAQADSNNGSENVLCGNNQISDLGILLPE VCMAPEEKGDKDDQLNKETEDYLNLSLL KGCLKDTEDSLSEYEDNQDDSDLLQDLS PEEASYSLOENLPSDESLSLDDAKRIEI AEVNQR*STIKSKMAFKKHIVLNLALFL
7248	15299	A	7916	2	390	SDSRETRVVINLKDSVFLYCKLFEGEK NQVKNENGCKDWQHLSHLSKHEESEM HINNSVKYSLKSLDLKKNKAIDAAERRL YENEEK*WCAVVVHVIVLSCFLGMMIR NLTLRLKTSVLAIVSTIVL
7249	15300	A	7917	1	240	KRGEKAPETSKTTSTWRIPCRKRRLSNR DFPDLSTGEELPETCGSCLRRGSGREN*D AETWPAQCPECESKAAVSTRFLF
7250	15301	A	7918	3	420	EPLSSPLFCP*NQSKIHPPIFLAPTWPHP HHFPPGPGQPPFLSTGSHLVL*QKPKGA HEHLSGIPPSLAQNPTWVPPHPGKRSSPH SATRCKICPRLAPSTLLTPSNLTGP*PL LPGALPGLLGPPENFCTGCFL
7251	15302	A	7919	2	127	RFWDYGRIALVS*ADSESRFQRLSTSSS GQQDFENELVGI
7252	15303	C	792	56	289	MNFTNFTYISGGGAGEYCAFSKLPGES HRIVWWNLWPFPRRLLSACRCQPQRH LPCALWELVLVNPTGCSRISSE*
7253	15304	A	7920	1	346	DSRSPSPASPPTQ*CRPSFFPGAPPPRLW LAPFFCPPPPPHGYGFPFARKRRGAALGL TRVLPFGSAVRRSPGPGPSAWDKTLK MKQKKFGRSVGLWRELIRDCSLAELLSA
7254	15305	A	7921	184	291	
7255	15306	A	7922	481	716	VFFFFFFETECRSIAQAGV*CSLRLPPPGSS DSRASVSRVAGIVGACHHAQLIFVFWA MGFHHVGEAGLEHLTSSDLP
7256	15307	A	7923	4	423	VARERRLPGPQEGPHGRAAGSASPLAPSI APSPGPALPASHILGSQALPSPETPW*S PWDPPAPLALVSPWQFPFGPPAPATP*RS PLGLQTPQAGSWAPPVPATPQASGLPA PHVPETPWASS*LALVPETPWDL
7257	15308	A	7924	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNACYLDSTLFLCLFSSVLDTVL LRPKEKNDVEYYSETQELLRTEIVNPLRI YGYVCATKIMKLRLKLEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
7258	15309	A	7925	3	187	VLAGLELEDECAGCTDGTFRGTRYFTCA LKKALFVCLKSCRPDSPFALLQPVSNQIE RCNSLAFGGYLSEVVEENTPPKMEKEGL EIMIGKKKGIQGHYNACYLDSTLFLCLF SSVLDTVLLRPKEKNDVEYYSETQELLR TEIVNPLRLIN*YCSRFPILRLSAVTL
7259	15310	A	7926	4	343	KLEN*KMVLKEIKEDLNKQTDILFS*LQR LITVRMSILPKLIYKFSAPIQIPA*FL*IKIII KCMRKKGK*TRIAETASSSSSPSQSFILSPK LDHRGGITANCTPPWAIKGLL
7260	15311	A	7927	1	531	FYHADHAALKDEMTEY*VFLQIKRYLY HGRLLCKHPDAALLAAYIIQAEIGNHDS G*HPEGYSSKFQFFPKHSEKLERKIAEIH KTELSGQTPATSELNFLRKAQTLETYGV DPHPCKDVSGNAFLAFTPFQFVVLQGN KRVHFIKWNEVTKLFEGKTFYLYVSQK KKGIGSCP



7261	15312	A	7928	115	348	KSCLNIFGLKQTTSSLRWNRVKK*AHTY G*QLIFNKGAKIIHWIKYNPANGICYWISI CKKVNLDPYLIPYTHIQNGS
7262	15313	A	7929	4	430	AWLSALNSSLPATWSCCPSLGASHKLQ WEATSPTVPPRAPSQVKCAACEPTPTLP CLPFQPPRSLSSQAQVLLTGHPG*GPLR RQGEGLLRSGCQARLTQPNSEGGAV S*TGRPGDGAUGEAAPEPTRRDCPTAPP AS
7263	15314	A	793	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVAS LSSRYH
7264	15315	A	7930	1	380	GTRLLVRYTPKEPQVWTPTFVEVFGDLG QVGPE*C*HPEAKRMPCAQDYL SVLN QLCVLYEKTPLSDRDTKCCTESLVNRRP CFSALEGDEAYDPQELNAETLTFHADICT LSEKERQIYKQTVL
7265	15316	A	7931	2	388	NVQKSLAFLYTNNQSQESQIRNAIPFPA TKRIKYLGIPLTREVKGLYNENYKTLKE FREDPNKWKNFPCSWVGRINIIKMAMLS KAM*RFPRVHIKIPGFTFTELGPILKFIW NQKRAQIPRATRA
7266	15317	A	7932	72	373	TSTLKKLEEKQTQSRRKEIKIPAEINAIEN KQIEKISKTKSCSFK*SIKITNP*LKQ*TKE KI*INNIKNKRGQVTMAFVAIKRISREYC Q*LYTNKFNI
7267	15318	A	7933	2	259	KQWKPAPPGPANPLPRGTSGPE*KGPHS DKAKPFPSPFFKKRQWGGAPSRSKKARG KGQPPKGGHLKGPLRVVNGV*RAPLNR TAA
7268	15319	A	7934	3	335	QIKPPRLRDTPHSFTPYHPVRRGLVYFPS APSPAKGEQLHTRHNVLGSHPRRRLP RSS*SSHRVTRGSLGSVPPARSTSYGPSR QWDLACPLTPEGVWRTKNNKPEAL
7269	15320	A	7935	37	281	GPSPYTDPTPTYP*LTLNTPRTNSTLPP TLHLPSRPTSPSPSTSLPPLVLRFFLKIQ SGKRRAYPEHFWGQNGERKV
7270	15321	A	7936	13	234	DLINKISKAAGYKINTEKSAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYGINLTKEV *ELYQENFETLMKGI
7271	15322	A	7937	3	426	VLEELPISVLFNSSVPAWQWLAHVYHS HGMMAAQMCIYKTLQLASQRRSWSA KLSSLWRLALLALKGCMANISNDYWPS LVQEATTEALKLCFCPLAVLLALLQFK RKMVST*TLCLLERVVYHPGSKFIGSN WPAV
7272	15323	A	7938	132	393	ETNSLFGPQVKRQGNLDG*LNPPPRGFK KFSGTLRRSGNYRSPPRVFGF*GKRGL NWWAKGGLDLS*NNPPWPSPQGARIM GES
7273	15324	C	7939	170	394	
7274	15325	A	794	38	604	APSPDA\MGHFTEDKAT\TSLWCKVNV E\ DAGGETLGRLLVVYPWTQRFFD\ SFGN LSSASAIMGNPKVKAHGKKVLTSLGD AIK\HLDDLKG\TFAQA*SELHCDKAAM WIPENFKLLGNVLVTRFGQSHFRQKNF TPEGCKASWAERWVTCSPVALFLQDT TEAQLPMNAELFKDKAFILASNYK
7275	15326	A	7940	107	379	PPFVAQLGGKGGNLG*LNPPPRG*RFSS LGPPISGNYGPPPSRVIFGFLRKKGVSPS GPGGFGIPDLKIGPFNPPKGLG*RGGPWG PNQ

7276	15327	A	7941	83	409	PEIISGFFFDHHGIKLETPKRNFGNYPNT WKLNTLLNDQGVIEGSSSLKWLKTN EKGNTYQSL*DTAKAVLKGNLT AISAYI KNREKLQINKQCIFNYPEKQEQM
7277	15328	A	7942	15	334	QHFWENFHVTKDRINTGERQETD WKIFA TYLMKKV*ISRKCYSYKLVRRKKQLNR K WAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRNAD*RYYLSPLAKSNKLN
7278	15329	A	7943	1	400	ESRLICQQMYMGEKPFGCSCCEKAFSNK SYLLVHQQT HAEKPYGCNECGKDFSSK SYLVHQRIHTGEKLHECSECRKTF SFHS QLVIHQRIHTGENPYECCECGKVFSRIDQ LVSHQKTHS*QKPYVCNEW
7279	15330	A	7944	46	364	SHLPNSSFEQKYAYEFVPGYQKH YTL SK FPWPFFAEMEKLILKFKWKS*SHITEAIL RRKNKVGD L T L S D V K S S L * R Y D N Q L L S V *Y*YKHRRIGPWDHGRPDHIL
7280	15331	A	7945	3	312	VCPCSQLNKAITSTTRCLRGFVCSSSCYR RRARERGM EKQTQRERERQR*RERQRR GEERQRGGKREPHSRARGGGGSRERER VREL*SDSDRSLEREALLR
7281	15332	A	7946	225	720	GLAHS AVRHSSFWGHLQDSGPLVPPGA GQGSGLLAAEWVGKASPWGPAPACPT PHSEALVCSFRTSPSTPHAHPGVSGPA SVLAALRLGLHLLRGCGGGTPTSPQTLQ DEEAN*GHRGHGDRLLRLTQAPT A Q P L WHRPWQKDWP N L L P R P L S F W C R P P P R P
7282	15333	A	7947	43	418	AYWGRKTPWLTISF W P T P G S P Y D N G R PLCYSDSAVLLCFDISRPETGDSALKKV RLDQLSNL*LSMRTKKESGPGCHECLLTS RNGSQGRKRF AQGHTISYSSGTGTWVSL PHCLPPFLLSH
7283	15334	A	7948	2	221	AGPGGSPHGVGSPLRISTRHL CFAATR SLLHIDPLIVLPLVDLKDRIII*NLWGLQP LPPASLLQPTALYS
7284	15335	A	7949	1	409	SPGTCGRRPQTM/PPGAPDFPAVEGRSLG LSPSQGGPAGAGGDAGPQEDVRQPPGEL AHGPLLPAQTG/SPGPQGLWLHRNPTS/G PPSQIGEGAEQGDEGVADAPQIQCKNVL KIRRRKMNH HKYRKL VKKTRFLRRKV
7285	15336	A	795	23	153	
7286	15337	A	7950	2	361	YSTSPAGQVGR L S P S Q G G P A G A G D A G P QEDVRQPPG/EAGSRPAASCPDWIPG/AA GHVAPPQSYQC P P S Q I G E G P G G T P E T Q A DQVRERPEAH LAEGGAKGSPRRAGRPPR STCGANESG
7287	15338	A	7951	337	1067	NLKAHPRRPFNPPLASGPFLILAGADTW *GIGGWKPTSSLRVPGIQSGASERGREP SSPGG*RTSSWGPASPPAPAGPPCEGERP RLPGPAGDVL*RETADPAAQHSMRQAK AGGRLPKERPSTAGKSGAPGAWSVGGG HRSQGSSTR L K L T V L R P P S G T S G P S P S R P RSAAATRRFLRTAPAGVLAAPDSALAAQA PPGPKGDGFRGCGPWIYPQVQNRFRITQ GPDSQRADGSAGSRLRK
7288	15339	A	7952	127	440	SLRYTFLYTFPILEHII V L M Q Q T C C L H G F I SIYLLIHTFILOIHPFHTLFQQTCSIQQLY FLV*YFAYVYTFILYLSYPFLYYY*AC FETDFSNEIGRV
7289	15340	A	7953	2	341	
7290	15341	A	7954	288	802	GVIMATSELSCEVSEENCERREAFWAEW KDLTLSTR/AEREGCSLHEEDTQRHETYH HQGGQGVLAQRSPWLMMRMGILGRGL QEYQLPYQ R V L P L I F T P A K M G A T N E E R EDTPIQLQELLALETALGGQRVDRQEVA EITKQLPPVVPVSKPGALRRSLSRMSQE AQRG

7291	15342	A	7955	72	488	HEAGSRMNGDHNSDVFSQD*QDFVQHF CQIGRVLTEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFRELVEPRKQ DADSLQRAWTVGWCVE/ADDIMDSSLT RRGQICWYQKPGVGLDAINDANLLEACI YR
7292	15343	A	7956	1	236	GTRVVAFRELVEPRKQDADSLQRAWTV GWCVELVRGVGQGRSFLQWW*LGWE GEGWA*NLFLGVCVSLSLVCYQGI
7293	15344	A	7957	317	1395	TGDQNSDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLAEYNAIGG KYNRGLTVVVAFRELVEPRKQDADSL PAGPWTVGWCVELLQAFVLVADDIMD SSLTPGNRSCWYQKPGVGLDAINDGN LLEACIYRLKLYCREQPYLNLNELFL QSSYQTEIGQTLDLLTAPP/QGNVDLSEF TEKRYKSIVKYKTAFYSFYLPAAAMYM AGIDGEKEHANAKKILLEMGEFFQIQDD YLDLFGDPSVTGKIGTDIQDNKCSWLVV QCLQRATPEQYQILKENYGQKEAEKVA RVKALYEELDPAVFLQYEEDSYSHIMA LIEQYAAPLPPAVFLGLARKYKRRK
7294	15345	A	7958	3	484	ETPVPATSAAIRLVLPLSLRVTSRQGP SVDRVVFPFCKFRPERSRHAAAGPNVVR PQPKPHEVGGERRGRPNAPANSFRSCSN LSPQYSLPKQNKSSNP*IPNKPTPPASPS GRTDGLSLQLPLPGSDGQASPTMRSSPAI SSALEIEFGKTNPFH
7295	15346	A	7959	3	432	SGSSRPRGSAQPRPGPGACGMAAPTSE*S SPPAWQPRPPCGGLHHCPACVHPHRDSG GSVPAPAAACCHTHGRPWPEFEGQRPQT QPQPQGPWVRPVLTLFAGRVASVPLVS LCAWASGSQPGPPSGGSGRALCTGLGAP PA
7296	15347	A	796	84	358	APRADAMGHFTEEDKATITSLWGKANV EDAGGEALGRLLVVYPWTQRFDFSG/Q LSELHCDKLHVDPENFKLLGNVLVTRFA IHRKEFTPE
7297	15348	A	7960	2	331	VCKLQQLPAHSGSPNIHISQLCPSHAW GLLVLSGCVTLRESFFLCFALVLQRKS SSLGILSCPGSIFTALNSTNLILGFLGGF CLVFF*DRVSLCHPGWSEVVQS
7298	15349	A	7961	25	364	LFYLYHLLFFGFGLFLFLIKLGSSLFINFS KKSVL*FTNWIYFSVL YFTDFCFIHSFFG FSLIYFIIVGFPLKFIGFILSFI*ITVYFGQA QWLTPVIPILWVAEVRGSL
7299	15350	A	7962	174	469	NGPP*RKKFFLSIPRKIWAPPGFF*/EGPPL FFFFFFLTESCSVA*PGMRWHNPGLLQPL PSGFKQFSCSLSPSSWDYRCPLPHPANFF VVVFLVETEFC
7300	15351	A	7963	65	2774	
7301	15352	A	7964	243	687	PHPIPHSEENFEFLIVSSTGQTWHFEEASF EERDAWVQAIESQILASLQCESSKVKV RV*GGVEDWPQELTLVLTAGNDTAEVV *EESRGV*EGGGAWRQSQCQPQPSLQLR TDSQSEAVAIQAIRNAKGNISCAHASAD AWVEA
7302	15353	A	7965	3	368	PSDPEVAGDPIFPFGPPSCPEVKDKTKSSI SLGWKPPAKDGGSPIKGYIV*MQUEEGTT DWKRVNPEPYKLITTWECGPNLKLRLK YRFRVKAVNEAGESEPRDTTGEIPATDIQ EEPEVFID
7303	15354	A	7966	3	78	FKIQNLIASTVRTVMVADCSRFDSPDLLL EAGDPATSPCRIFDLGSDNEEVVAIPDPS HPKEGLSYSLSCVLLGRSLPRCLISCIPL CLSVASGPHKFY*PHCQHRPHGDGGRLQ PLRQP

7304	15355	A	7967	195	345	NDISANPAIKKFWKLPKCPTTEGWLNT* LYIHLVEYYATLKVCGDLYVR
7305	15356	A	7968	2	801	WRNSADVWWYCGGPLDTPSNWSGT CTLVQFAIPFALAFLOPEKEKPQHRKIRE APYGSFDSQVYLDATGVPQGVPHKFA QDQIAAGFESIFWWVTISKIDWINIYY NQORFINYTRDAVKGIAEQLGPTSQMA WENRMALDMILAKKGGVCVMIKTQCCT FIPNNTAPSGSITRALQGLTALSNEAKN SGVNDPFGWLERWFGKWKGIASILTSL AARIGVVILFGC*VTPCIRGLVQRLIETVL TKTSLSSPPPYSD
7306	15357	A	7969	113	362	WLHAPECFSQCPSQSPS*LGCQGPESDP DPRSVVGPPLSQAGSPGRPGGTVITLCLL WPHLAPLFHLWSPGKCTSLLVVQHS
7307	15358	A	797	1	428	
7308	15359	A	7970	1	955	MTQPFNYSAFERIIFAGSPGHITVSSERSL LVRPRSHPEPKGEHYVTGSPTPENQRTS AAMSKPHSEAGTAFIQTQQLHAAMADT FLEHMCRLDIDSPP/RRPLPATPKPPPW VPWRPPSSAAVGP*SSPSLADVKSQVL VTCCLACHCHWQREEWVLVTLGQGCLS VSEFRV
7309	15360	A	7971	113	716	RSLGPCQHSWQSSPGGPRPQRPPLGLGP CTAQGRCHGTGGPDE/TVWGFRVTAMM GARGRYL/AHLVSRLEMGWGSYIRVHFT RPQEVPSGRSNSSPSHPAQ*GLWPLQHL RRTPEARAAPHIPISPSAC*VTICLPPFH RPRDQDHLAPARSASPTVPQPMVGRT PTP*TLTQRGSPGPMSPAPIPLAANDSDK PSST
7310	15361	A	7972	244	1510	KFPKKTTPHLMESAITLWQFLQLLL DQKHEHLICWTSNDGEFKLLKAEVAKL WGLRKNKTNMNYDKLSRALRYYYDKN IHKVIGQKFVYKFVSFPEILKMDPHAVEI SRESLLLQSDCKVSPEGREAHKHGLAV LRSTSRNEYIHSGLYSSFTINSLENPPDAF KAIKREKLEPPEDSPPVEEVRTVIRFVT NKTDKHVTRPVVSLPSTSEAAAAAFAFLA SSVSAKISSMLPNAASISSASPFSSRSPSL SPKSPLPSEHRSLEAACHDSDSLEPLN LSSGSKTKSPSLPPKAKKPKGLEISAPPL VLSGTDIGSIALNSPALPSGLTPAFFTAQ TPNGLLL/TPS/PL/ASSIHFWSGL*SKFVP LSPARLQGPSTLQFPTLLNGHMPVPIPS LDRAASPVLSSNSQKS
7311	15362	A	7973	1	1230	
7312	15363	A	7974	3	358	LPAPGARPEWLLFPAPVVGVLWTPQS IISLHFFLNPVGQTLSSSSSSSSP*RT*LP MTLS*VGAVSGFKPISRPPPHSGHNSPS LSQPSLTILVSSNSPGSGKARGPQCPQAW L
7313	15364	A	7975	194	372	LFG*LKAPPPGLKQFSGLSLRRSGNYGPP PPPPVYFFVFLKKNGFPLVTQGGNLRT WG
7314	15365	C	7976	238	459	
7315	15366	A	7977	1	505	AGGAGEETPHQESQRQGCALPQEPLYP PCPAIHPPPLPLGGLLLFPSLPSLALSCMV PPPWAAQEGI*MENHQPEKKRLWGPPP ANSFPARPLNPHLFQAGTGCPPCPREVP TPSPWAEPPPLGPPSEIAHLTTVRRGA ALANVNHENISDTDENKLNAFVTA
7316	15367	A	7978	39	141	LSIRGLNIIKRQRL*DWIKQQDSTLCCP* EIH

7317	15368	A	7979	8	532	FNYLLKFKIRRPPhAFQMFPMSQKKEG PETAESLSSHGCLSL*R*EISWAPPTCG AFPSSAATLGASPVLGASVPLGAAGMQR GRRGHRIPGDTWGLLLPGAGGTDAESPA HNWEP*TSVPPSRPGHPSGASGLQSGRP PL*GDCEWGRKAGKGHAY*VGPPELHT LPLSDP
7318	15369	A	798	2	476	VNVEDAGGETLGRLLVVYPWTQRFFDS FGNLSSASAIMGNPKVKAHGKKVLTSLG D/ASSASAIMGNPKVKAHGKKVLTSLGD AIKHLDDLKGTFAQLSELHCDKLHVDPE NFKLLGNVLVTVLAHFGKEFTPEVQAS WQKMAEDVTGVASALSRYH
7319	15370	A	7980	1	9786	
7320	15371	A	7981	27	13822	VPFSVAAAEPAQPARAARPRPGRSPGA APPQLAMDPPRPALLALLPALLLLLL AGARAEEMLENSLVCPKDATRFKHL RKYTYNYEAESSSGVPGTADSRSATRIN CKVELEVQLCSFILKTSQCILKEVYGFN PEGKALLKTKNSEEFAAAMSRYELKLA IPEGKQVFLYPEKDEPTYILNIKRGIISALL VPPETEEAKQVLFDTVYGNCSHTFTVK TRKGNVATEISTERDLGQCDRFKPIRTG
7321	15372	A	7982	40	400	ELFGHIALQTIAYSILWDLKFLMRNLALG GGLLLLLAESRSEGKSMFAGLMFMTLL HFDASFFSIVQNVGTALMILVAIGFKTK LAALTLVVWLFAINVYFNAFWTIPVYKP MHDFLKY
7322	15373	A	7983	1	900	FRAAGAGADGREPASERASRAEPPAVA MGQNDLMGMAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWFQWSEQRDY IDTTWNCGYLLASSFVFLNLLGQLTGCV LVLSRNFVQYACFGLFGIIFLYTIAYSIL WDLKFLMRNLALGGGLLLLLAESRSEG KSMFAGVPTMRESSPKQYMQLGGRVLL VLMFMTLLHFDASFLFLVQNVGTAL MILVAIGFKTKLAALTLVVWLFAINVY FNAFWTIPVYKPMHDFLKYDFQTMMSV IGGLLLVVALGPGGVSMDEKKKEW
7323	15374	A	7984	2	397	GRVGRPTRPPTRPPTRPPTRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSG PFFGVSPCVPEILKSSSPRIGCPRN*AFPFK RGNL
7324	15375	A	7985	5	230	IGNFKNVFSIVNITTRQNTSTDIENLKNN HV*NTVSNS*YTVFSSACGTFTKISHLR H*TSLDKF*KLDVLWS
7325	15376	A	7986	1	366	NPSIVGGQDLCKGNYKTQIKDLLADGSS SSSSSSSSSSSSSSSSSSSSSSSSSPAGPM KTPTSFLIELGKTIVQFL*NQKRV*ITKVIL SKKPQKTENKTKLEAFHSTLCYLPSNYA TRL
7326	15377	A	7987	3	361	ISKKKFFLKGFFFLGFF*KKPPFFFFPPPPP G*RGKKKIFFFFWVKKNPLEKNFFSLFLK KGGPPTPPGGFFFFFKKKRAPQGGGPPKI FFFFFFFFFFFFFFFFGDGVLLCCPGWSAV
7327	15378	A	7988	2	359	GLPS*HYSPPQLPH*SHSHTIAPKAEEKA NRKETHFSRSPQQISGRCPQDQSLAKV DFLDQLRPMVGHSLGRGPHLPKHMPT PEQIQEEPEAHHLPLVCEQLPLPWEDF VYGSSR
7328	15379	A	7989	490	583	NH*SPMFGYICVCFETESCSVAQAGVQ WYNRGSLOPPLPGPKGFVCLSLPSSWDY RRRPP
7329	15380	A	799	23	349	
7330	15381	A	7990	1	129	QPGPEGKIRFFLKIPNLTPSGGKSLKFPLF KRVKPENCLSLRG*GCN*PGPEGKIRFFL KIPNLTPSGGKSLKFPLFKRVKPENCLSL

					RG
7331	15382	C	7991	96	380
7332	15383	A	7992	202	499
					ILGFVQWHDHSSPQPKTPGLKQSSCLNF LSS*DNRHMPPGLANFFIFVEMGSCYVA QACLELLGSSNPLASVSQNAGITSMSQC TQLFLLLLNRFP AFL
7333	15384	A	7993	1	206
					NSSVFLHLQALGIPLHLAYVSVFPPTPG* GSGHGRSLLSISVGQGLPPQRPSPASPFH LDIIHQGP AW
7334	15385	A	7994	2	349
					TCHRKRKKRNPRHGEVGLGYPTDESAPF SAPALGPGEPRVPGSSSGRASGH*WYPN AVESP*EEGEL*GRRGETLVAEKKKKPR HGEVGPSPMEKKCLPISP*AGPRGP RRP WF
7335	15386	A	7995	269	364
					GHL SAIGH PFP*MSFNHGRKTRTWNYLG SEEQ
7336	15387	A	7996	1	314
					PSRSFISNH*PHQDV*PRFFNGIHL*YSHT PGINHVEPEPNSTRSKACWEGFGSSNSG NGSFLGAR*VDVQEVLT TTTWRVIRVWN* CFGRNSAPMAQSKSSSES
7337	15388	A	7997	65	354
					YFYIYFSIYHFIAPPYFSLVFLHLVCPYL SSFLSR*KIHVCLKDFKVNFS*TIPLSKL LELLESISLFFL*NVDFILEILPLY SAILK RVYF
7338	15389	A	7998	1	957
7339	15390	A	7999	97	4146
7340	15391	A	8	190	383
					TRMIHITSVYSHPHQAQLRGCEVLRHKA HLVLP A/WSTSCSGIPRGQQTAAQGGYSR CFLAWSLEA
7341	15392	A	80	44	377
					TFFLYLENLNTAVRFWKLPYIHC FKNPG GAGLICIAPWLTKAFVFGSDYSCLVTVR VK*VFKPFLKDVEIRR/FTWTIRQPWD AV FLRVPDYHALIKQPM DLETD*MRLANS
7342	15393	A	800	17	535
					APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFFDSFGNLS SASAIMGNPKVKAHGKKVLTSLGDATK HLDDLKGTFAQLSELHCNKLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTG VASA LSSRYH
7343	15394	A	8000	97	2728
7344	15395	A	8001	1	2295
7345	15396	A	8002	97	4027
					EKEPYEEISAEADREPQQLQNYWSEVRY TVRCIYRQAGTPLADDQDQSLVPDKEGV KELVDRLCERDPYQLYQRLEQQAREYV LEMKVRLRLQLSAAAKVKAPSGLQGP QAHQFISLLLEYGALCQAARSISTFLGT LENEHLKKFQVTWELHNKHLFENLVFSE PLLQSNLPALVSQIRLGTTTHDTCSED TY STLLQRYQRSEELRRVAEEWLECOQRI DAYVDEQMTMKTQRMLTEDWELFKQ RRFIE
7346	15397	A	8003	1	450
					GVPYKRHIEGF*PGLNGPLKFNGPSSSSS SDGLRLRFSGSGGQSPNWPVPLGSYQGR SRPVPPGSSAEFPSPASGGTHVPQLR ALPPLHGHSAAHPHLSALTVP PPVVRT L*GHWGPGPPTLDAPPSPSHLQVPLSSQG GIPPHWT
7347	15398	A	8004	16	303
					GENPLMRWPEALPGVFKTCFSPPT*GYG GGLMFLCHHADSINFSAFQPINNADFIVP IEIEGTTHQVSCQPDHTQPRGWGVCLLP HLYWGPPPI SG

7348	15399	A	8005	146	808	RIFSLCSAALSKKHGNPQDCSRRAPGNV PAAISRAPSLVLGLRARTVTRKGGLRPR KGEQGIPIPSDPAVKGPGAEPGQARFAP VYQILIGAPRWEPLSTGGYTVSGSSPVV EVGTRANQPRQ*ALPASHLPPLASRSSSS SHLYTAAPPLVSRGSGGSAGRALDSSFP QHSLAKPRPSAGLEAPGHWGRTGGDRR RKGTGGEPHTFAEVEALPASARP
7349	15400	A	8006	111	369	FGPGPPL*SPLF*GSSSSSHSGVGK*NPSFL PGGTPVFFKNPKFPPPWGGPPVSPLFWG GETGNWGNPGGGTLEGPGYPLALPGG K
7350	15401	A	8007	85	394	DWRRRRRDSRSS*REDCQSTIYVRKRAK SNCWCWSKEKSKSHERDSIPRIIEKRM SRSKGRDHENVKEKEKQSDSIGNDEGS RSREKSNQFDSKSNERDH
7351	15402	A	8008	2	2255	
7352	15403	A	8009	1	1845	
7353	15404	A	801	17	533	
7354	15405	A	8010	12	450	SEPP*ITSVDPRVRGNASTGYGKIWLDDV SCDGDESDLWSCRNSGWGNDCSHSED VGVICSDASDMELRLVGGSSRCAGKVE VNVQGA VGILCANGWGMNIAEVVCRQL ECGSAIRVSREPHFTERTLHILMSNSGCT GGEASLW
7355	15406	A	8011	121	342	QNESVVHMKTF LAVFKLPLKIRQIKCIYI FYN*ELKLYSVILKYFFLYDFRPVCLVLS EIPFMSTWFLLVSTFR
7356	15407	A	8012	3	383	EKGPLSPKVLFNHLCQKAPRFKDFQQQD SQELLHYLLDAGRTE*TKRIQASILKAFN NPTTKTADDETRKKVKTYGKEGVKMNF IDRIFIGELTSTVMCEE CANISTVKDPFIDI SLPIIEERVSKP
7357	15408	A	8013	18	280	KCRSRN*TA*FHRLNAKALSLLTLN QKKHLVEILSYHNCDSTQTRNAPELDCLIR LQAQNIQQRHIVFLTGKESTPKLSTMNIG M
7358	15409	A	8014	3	271	FFLRQSHSVTRLECTGAI*AHCNLCPLGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGQAVLELL/NLMICPPQPPKVLG LQA
7359	15410	A	8015	609	921	FYLSEEAFFFFFETES/HLLSPRLECSG MMSAHCNLRPLPGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7360	15411	A	8016	140	346	FPPICYLLEIGSHSVVQAGVQWHRHSAQ YP*IEHKQSSCVSLMSS*HYSHVPPSPG NILL*RRGSCV
7361	15412	A	8017	2	348	AGVPPGNPPLWGEGGSGPRGGGLKPG FPQRGNPFFFKKSQTPPGGGPPLIPPPW GGGAGGSPLPQGQRFO*TKIGPFPSRPGK KKKPPFPKKKKKKKKRKEKSEMPGFMV LNA
7362	15413	C	8018	282	497	
7363	15414	C	8019	267	473	
7364	15415	A	802	160	434	LISVIPALWEAKAEDHMRSVQDQPGQR GKTPSLRKIHLARHGGMHL*SQLLGR LKHKNRLNPGGKSCSEPRSHHCSSAWAT DQDSVSKK
7365	15416	C	8020	435	821	MKSRVIGWASGLKNEIFFFFFFFWRDR YRAMLPRLVLNLLFLIEPPVSILVKHWD YRHEPPPPRXRLPFCMMRLEGPHCFRDF ATYKQSVRTVAGLFSLIKFSAHTNLD QRIWDLNPISGYFPN*

7366	15417	A	8021	121	818	HSKGSQVQSPGPPESSAGPKPGAQPOPT WGLAAPEEGREGGKCGRHCNSKPLSQ PCAGVWSGRGAEEGGAGPDHPARTGP PSSPSCSAGLPDL**GLKPPLEASSMDPGF VLEGGPRVREGVCQDGI*A*ELEEVPSPG GSATSGAATLSDRRGNGASQARLP*PS HWLPRAK*APQG*ASPGSPTACPAHPS WKGGSAGPGMGRGRVVGDRCGAWGT GSHCNPTPSS
7367	15418	A	8022	11	368	SFTCCFQMHTKLLCLNTLCNTFLSTGAFF LIVLTWLSPIAVRLSLNVISERPFLFILSVV DPCAHLIYLSLLFVS*VLPQYVIALFVPH KRM*ETMYACLPVCP*LLTACLEHNCISF I
7368	15419	A	8023	3247	5031	EGLRGTAALLTGGRGP*GQPQQ/PGGP ASSPSPAAPGPAAPACSTALWPTVSL RAPSPCPPQRAGQGYGSWG/GEFG/NSM ASGGDG/EPLSQGLAPAGTPGLARLQGP GHWAVSLWPSLRGFPGGPQTGQSPLSQP HSALTGRGRSPGALGPPPPQRPHPAP DPARPQR*TPLTAGATTRPQHLPQGNCR CSLLLLFLLLLFLLLLFLLFFLILFFL LIFLLLLFLLPISRLNRSQWDLGGGEQ HVREAHPPDPVEQPRPFSVIGEVSEFVLV GQTQRHSSWEAHLKWRHGEHLGLEVI GPLNPRKAWMPHLLQLGPRDAEHRGH ESVVASSEGRVAPVGRPHRAALSRAAAL NEGTTGGARGAAAAGVRVMLRLQRGGG EHGGRQSSQGAVPREGVPRESVLLQLSL WACGVRLSPSRAGSRVQG
7369	15420	A	8024	87	567	KQPPPHGESAAWAATSRPGWLLCRPA EGRTPGWTAFDVHPTLMQKLPEHSGNFS GQSPPCQLEALPRPSTCPLGSSRGSGREG PLPPT*ELFPNGQSVRCQVGGPGYDSWC PGPGPAPCPPTP*M*GPQALTSAPGPNK HPGLELGRRGPERAPGPF
7370	15421	A	8025	2	347	KALACPPTCCVLGVHHAHVSAAGFPGHR PLVRRHIAAGHQVTLSTLHPTLCCHPKS NCTPCGSRRVPTPTPLPAPGPQAFCPVP GSHWLAWSPRGRSPPTSVAPTQPY*QPP SC
7371	15422	A	8026	3	359	HEGTVQQPQARGLYEDLLMSEGENDED DAGSDDNGDNIFSAIHLSESGRSDA*FG GIRPKQSRMLKENTRMVMDNEERLLFY EGDCGEASHGLEDSCLSYGSYEDPDPK WNTQNTSFC
7372	15423	A	8027	2	424	
7373	15424	A	8028	3	456	PQTQREPTMVLSPADKTNVKAAWGKVG AHAGEYGAEALERMFLSFPTTKNYFPHF DLSHGSAQVKGHGKKVADALTNVAHA VDDMPNALSALSDLHAHKLKRVDPVNFK LLSHCLLVTLAAHLPAEFTPAVHA\SLDK ILASVSTVLTSKYR
7374	15425	A	8029	3	198	RQGSCSVTQPGVQWNNLGLL*P*PPGLK QSSYLSSPSSWDYRCVPTRLANSYFKFI* YVFFCLF
7375	15426	A	803	1223	1338	RWPLWSFIETKRRTL*SQLLRRRLQENL LNLGGGCS
7376	15427	A	8030	1	346	LFAQPNPVTFKIRIYCMSKDIDKVRARP PEWEKICANHVYNKGLGSRIYKVLLE* KNIVRLNQKANAQFYAGYKLRCYRKFS NKSIVNE*KVLLFMR*EYIPVSTHFICCVI L
7377	15428	A	8031	60	523	



7378	15429	B	8032	68	679	MGKEKXHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKM DSTGIALTGDFPSLE PRHVSTWLQHVVTIPTRNWHKCYCVGV VANFLN*
7379	15430	A	8033	53	1497	KLPLKAKMGKEKTYINLAVIGHVDSGK STTTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERGITIDISL WKFETSKYVVTIIGAPGHRDFIKNMITG TSQADWCCPELLLLGVGEFEAGISKNGQ TREHALLAYTLGVKQLNAGANKMDSTE PPYSQKRYEEIVKEVSTYIKKIGYNPAT VAFVPISGWNGDNMLEPSANMPWFKG WKVSRKDWQCQLGTTLLLEALDCILPPT RPTDKLLRLAFQDA*QNGGIGTVPVGR VETGVLKPGMGVTFAPVNVYNGK*KS VEMHHEAFECKLFPDCKGAFNVKINV SVKDVRRGNVAGDSKNDPPMEAAGFT AQVIILNHSGQISAGYAPVLDCHTAHIAC KFAELKEKIDRRSGKKLEDGPKFLKSGD AAIVDMVPGKPMCVESFSDYPLGCFV RDMRQTVAVGVIAVDKKAAGAGKVT KSAQKAQKAK
7380	15431	A	8034	3	309	RFTGHYRMLSGEKPYEWIEWGKRLSSN TALTQHQRHTGENPFECCKEKGAFNQK ITLIQHQRVHTGEKPYEC*ACGKTFRWG GRFILHQNLPQTQKTPVQA
7381	15432	A	8035	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGKTQPPLKRA FSTEK*KFD*/TINLASQIFNQL*ANCTK YVGCFVIEDYSGSESILCLLFALIYNSFDF VSLV
7382	15433	C	8036	310	546	MGIMSVPPHPQNVDPYPLDGEKILHILGF NPEIQLWEILFEQDNGRAISWPLLLGFL YSVPIGHQGRQLGRRNLGRS*
7383	15434	A	8037	97	333	HRIRPICSPQYMEKVYVTKNNNYRILEID MNFPPPETEGVGGQVLEVMPEELKPS IFFFF*DRVSLCHPGWSAVVQS
7384	15435	A	8038	250	378	TESLYLNTIKATYEKFTANITLNNEMLKA FSLRLDTR*EHSLS
7385	15436	A	8039	280	759	GYINNGGRKRRTTELKPTPRSCRAEGGG VEGGPPACPPPTNCLQRLQPHLGSCTEIS GQERE*GYINNGGRKRRTTELKPTPRSC RAEGGGVEGGPPACPPPTNCLQRLQPHL GSCTEISGQERESGGEGNSGPSNNRVH GFSKAGHGLGVGEEEEERQLWL*TGRK QRPNIPIRRLQASLHLPASPCQPAVPG ALSSPRRWQPPASHSCSPPRHTKS
7386	15437	A	804	1057	1354	SQHFGRLWQVNHLRSGAPAQPGQQGKT PYLLKIQLAGRDGARL*SQLRRLRQE NRLNLGGGGCSEPRSCHCTPAWVTKRD SFSKTNKQTENNNKRIL
7387	15438	A	8040	1	401	ILVLDPPPQPPKLLSVKGNPEDFIFRQFFF SPYPLFPFPFYSYAKPPVSNETFPFPHRF SKLLSQPADMPPLPGSLP*LLHYSACM LHHLLFCSLAHCAFRLLSCQGCQYLHGL MHMFRSGHMHYAAAGRV
7388	15439	A	8041	32	378	CVYTFIC*EISGLFPVWG*YRK*GSSSSSS SSSSSSSSSHFNKYSSCMFNF*NC*TVL QSGCTILLHHWCMRVLSP*COQHLAV FFSHAILLSV*LHLTVIFICIPQITS
7389	15440	A	8042	30	434	DGSSLCRPGWSAEQDCVSSGGEKKKKG RDNIEDEACSSRPSR*LFEENIHLVHALIE EDQLANIIDISAGSAYTILDEKLTLKRFT RWVPKPLPSDQLQTRAFLMEILNGWD

						QDPEAFLQRIVTGDET*FYQR
7390	15441	A	8043	3	340	IPKPMAKLPFMKYRDLHTNLLYSRMETG PKHIPMKTLKIMEDIALGMDNLSLMNY LYLELTARNCMERDDMTDCEADFGLSR KRYSGENYLHCRIANRPV*GSAIESLAHR
7391	15442	A	8044	3	378	LIKKHVDFDLATNVQEEKIAALEDFAHQ LITAGHYAKGDIFSRNEVLDRWRRVKT QMIKRA*V*KSQTLQQFNRDVDENEA WISEKLHTASDDSYKDPTNIQLCKLLSK HQKHQAF*TELPAT
7392	15443	A	8045	169	375	SSSSLPLHITNNPLHQPLPPQLPAYTGA EGDPCALLS*YCLHLLNTEAVNNIITFLG KQPCRYDKV
7393	15444	A	8046	27	289	RSPKTHGGGRRWGMVRPGTAPT/PCCPH RPQLP/CQPLLGPE*SLLEGRSSSLDSGM EESQTHAAPACRTWCSDGPR*PWMGPA ARCSG
7394	15445	A	8047	3	284	LFLWRRQLTLTENPRWWPTLGDGQARD CSDACCPHRPQLPSSHCSQTKSSPIPEVPR PPKHR*GGVCAGPSHLPGGPGSSPSPCP WPGSGLF
7395	15446	A	8048	459	1020	EPPRGAEQGGVPGGKGPETSAAAPTPA REPERVPGGA/PAPECACAEVAAPAPA GGS/LPAGPRPWPRWAAGAP/QGDKG PGEAATSPA/RGDSGVEPRGGGVPLPRH AGPQARRCEPTLPHDLYSGQVQPEHRAA G/LHPRSSGTI*APCTTCRAA*V*DSSIPE SREELRPSKKRSFRSEKEK
7396	15447	A	8049	3	417	VTCKGAFAQKAQLIVHQIHTGKKPYDC GACGKDFREKVHLVRHQRTHTGEKPYD RSEGRKAFSHKSDLIHHRVHTGEKPYEC CECGIAFSQKSPLIHCRIHTGERPYECIK CGKAFYHK*QLSIAHRAHTGDIAG
7397	15448	A	805	831	1082	SQHFGRPRRADHLRSGDRDHPAQHGETP SLLKRQKLASHGGRHL*S*LLWRLRQEN HLNPGWGGCSELRWRHCTPAWATSKNS F
7398	15449	A	8050	29	223	LIKKLASCNGEHLYS*LLKRLRWEN*SSL GV*GCGEL*SQHCTPTWVME*GPAQKH KNKTKKLL
7399	15450	A	8051	194	372	ICQPLSLSTANHPVLCLCFTHKNLHIFIA ALFIKSWKQP*CTSVDEWIWGLAPLY
7400	15451	A	8052	1	325	FFFF*DRVSLLLPKLECNGTISAHCNLR PGSSDSPASASSSFTIHVAPLPQLRHY*I FYDGTSLYAG*YSQNLLIYSAPRQPQY HFKDMNKILDSIQRSYTKI
7401	15452	A	8053	228	481	QFFRNTIFF*DRVSLLLPKLECNSAISAH NLCLPGSSDSPASASRVAGITGTCHHTRL LAFVFLVETGFYHVSQSGLELLTSGD
7402	15453	A	8054	175	431	LIVKMPFLK*SWKIF*MSK**VMLIH*GF VFLFVCFF*DRVSLLLPRLECNGPISAH NLHLPDSSDSPASAYIKGFVRQLSHEE
7403	15454	A	8055	257	453	TKGGGYTQRTAIQFILFIYFIY*DGVSLL LPRLE*NGAISAHCNLHLPSSDSQKKT KNFCTQ

7404	15455	A	8056	277	1230	ISFHLSTFGAPSF FFF FEMEF SLLLP RLEC NGAISAHNRNLRLPGSSDSPASASPVGWD YRHVHPRSANFVFFF SRDGVSPCW SGLV SNSRPQMIPPSRPPKVLDTGLATMPGLCL ANFCGRNRVSLMCPWSPELKQSTCLSL PKCWDYRRAAVPGLFILFFLRHRCPTLT QDEVQWCDHSSLQPSTPEIKHPPASASQS SWDQRHAPLHLANFYFYF*FFETESHVS TRLECSGAILAHCNLCPLGSSYSPAPAS* VAGTTGAH/RRLANFFVFLVEMGFHHVR QVDARSLDLVICLPRPPKVLGLQDVSHH RPAYF
7405	15456	A	8057	1	467	FFFLF*EGVSLLLPRLECSGAISA/HCNLH LPGSSDSPASASQEDGITGVRYHAWLIL/ VFLVEIGFHHVGQADLKP*PQVIHPPLFF FFLRQSFALVAQAGVQWCDLSSLQTPPP RVQGILLAQPPEYL VAGFTGMRHHTRLF FFFAFLVETGFHPC
7406	15457	A	8058	274	321	
7407	15458	C	8059	69	254	MDHLYNXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXEIQFXXXXERERNKNPFPAGD DIISRGVGO*
7408	15459	A	806	144	441	GYQLPLQDELVLGQFLFQVSKIRFFSARK ITCNSHFLLLKFF*FPHICK*VSFSSERAA AADRAGASHPRIHHNLQRLQENSIRGPK YSSHTVSADAW
7409	15460	A	8060	32	169	NPVPPYPLCPALVFFLLLIYLLIY*PSPLLR MSAPAGKGFLFLSL
7410	15461	A	8061	417	490	
7411	15462	A	8062	424	579	
7412	15463	A	8063	1	2157	GFQKRCRHRIAQLFAVGALVCCLVLLHL SAMISASRAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRRDYASEAIKG AVVGIDLGTTNSCAVMMEGKQAKVLEN AEGARTTPSVVAFTADGERLVGMPAKR QAVTNPNTFYATKRLIGRRYDDPEVQK DIKNVPFKIVRASNGDAWVEAHGKLYSP SQIGAFVLMKMKETAENYLGHAKNAV ITVPAFYFNDSSQRQATKDAGQISGLNVLR VINEPTAAALAYGLDKSEDKVIAVYDLG GGTFDISILEIQKGVFEVKSTNGDTFLGG EDFDQALLRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELSSSVQTDINLPY LTMDSSGPKHLNMKLTRAQFEGIVTDLI RRTIAPCQKAMQDAEVSKSDIGEVLVG GMTRMPKVQQTVDLFGRAPSKAVNPD EAVAIGAAIQGGVLAGDVTDVLLLDVTP LSLGIETLGGVFTKLINRNTTIPTKKSQVF STAADGQTQVEIKVCQGEREMAGDNKL LGQFTLIGIPPAPRGVPQIEVTFDIDANGI VHVSADKGTGREQQIVIQSSGGLSKD DIENMVKNAEKYAEEDRRKKERVEAVN MAEGIIHDTETKMEEFKDQLPC/ADECN KLKEEISKMRELLARKDSETGENIR/QAA SSLQQAS\KLFRNGLTKKMGS*AEEGS GSSGHWGNKREDSKGREKPVN
7413	15464	A	8064	500	752	

7414	15465	B	8065	1	1713	MALWRGSAYAGFLALALTWRDRKKKF PGDDEAPGVKRTWAAGAGMRGRQWLR KRVEVVCTGRSANTVCAGVRAAGLVEK SPPPSLSRVGRRFRFCGDLDCPDRVLAEI STLAKMVECTGSTLGGGGYKKILKLTA AKFVEEHEGKKDIDSPTFLSSASSWWSS SAYGSRRPGGFELKLIGQQGESGDVKAT VAVLSFILSGAAKHSVDGKSLASELQQL GLPKEHAASPCCYEEKQSPLQKHLRVC SLRTWSLAARVAEGTAETVDPSAAPKTS VWSSRVCWGRLLATISPSVNETDTCGME DRRLVVCRPWRAQCHMKAWGWRHPEE GGTHSGAPSAVLQALAVAIQLGGHLADP LLQVDPLSSCGAVSLDILIYLVFYRTAS VPETYIVKTLFKKLESQSLIQSNVLRN SMKAERGEEAAKEKSEASRGWFMRFKE RSLHNKMQGEAASADVEAAASYPKD LAKITDEHGYTKQQVRCIQNSLLLEGNA EEVRKIIVCSMSPPLKPGGPVTLVEEFLC ASKASVSAVSGWISKWRNWQEIRQEE REDRASLPDLQASES*
7415	15466	A	8066	1	3053	MRPGFVVSVGMVEGVPEPDYPVLCY TPWPGHDLPASRAALAQGRSWSLHRMI GQDSGRRRSRRQHFAPGTSSGLRSAPGL TRAGPAPPEAVSPSHVIVDSADLAGPEKE IPGPWLPRAMYEAAGVKRAWAAGAGM RGRQWLRKRVEVVCTGRSANTVCAGV RAAGLVEKSPPPSLSRMGRRFRFCGDL CPDRVLAEISTLAKMVECTGSTLGGGGY KKILKLTAADAKFVEEHEGKKDIDSPTFLS SASSWWS
7416	15467	A	8067	330	452	
7417	15468	A	8068	3	347	
7418	15469	A	8069	3	1279	
7419	15470	A	807	165	1222	QSKRLNAKRYLLTDNVVKLKEFQQKKV AVACNLSTKETYFRNLKKKLTONKLIL KGELITLLHLCESRDHVELAKNVIYRYH AENKNFTLGEY*FGPLFVRLCYQLDLEE SAGELMKDQHLRGFFSDTLFNILMDML FIKGKYKSALQVLIEMKNQDVKFTKDTY VLAFACYKLNSPESFKICTTLREEALLK GEILSRRASCFAVALALNQNEMAKAVSI FSQIMNPESIAICINLNIIHIQSNMLENIK TLKNAAEGLNSKFVKRHVFSEEVLAKEV REKVKDVPALVAKFDEIYGTLHITGQVT TDSLDAVLCHTPRDRKSHLLLLNKRMS RRTFQPLSQSLLAE
7420	15471	A	8070	1	496	LLGVAPSRAFQEEILR/DRASFHE/RPNLF ALKHPTSKAECTAEKCYRVTKGRGIFPS GSPFKSVTLEDGKTFIPGQGNNAVVFPG VALGVIAGGIRHIPDEIFLLTAEQIAQEVF EQHLSQGRLYPPLSTIRDVSLRIAQVLD YAYKHNLDSYTPWKEAMNVQTV
7421	15472	A	8071	228	448	

7422	15473	A	8072	3	1877	EGEDRGLPRTMGAALGTGTRLAPWPGR ACGALPRWTPATAQGCCHSKPGPARVPV LKKRGYDVTRNPHLNKGMFTLEERLQ LGIHGLIPPCFLSQDVQLLRIMRYERQQ SDLDKYIILMTLQDRNEKLFYRVLTSV EKFMPIVYTPTVGLACQHYGLTFRPRG LFTIHDKGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCYGMGIPVGLALYT ACGGVNPQQCLPVLLDVGTNNEELLRDP LYIGLKHQRVHGKAYDDLDEFMQAVT DKFGINCLIQFEDFANANAFRLNKNYRN KYCMFNDDIQTASVAVAGILAAALRITN NKLSNHVVFVQGAGEAAMGIAHLLVMA LEKEGVPKAEATRKIWMVDSKGLIVKG RSHLNHEKEMFAQDVHPESNLDEVVRL VKPTAIIIVAAIAEA\FTEQILRNMAFRR RAPIIFALSNPPRKAECTAEKCYRVTEGP RGFFASG\SPF*GVLIWEMGKTFIPGGRG NNAIYVFPGVATGVIA\GGIRHIPDEIFL LDSRAKLPQEVSEQHLASQGRLYPLSTIR DVSLRIAIVLDYAYKHNLV\SYYPEPKD KEAFCKIPGSYTPDYDSFYT/VDSYIWAQ GKAMNVQTV
7423	15474	A	8073	325	587	
7424	15475	A	8074	124	343	
7425	15476	A	8075	32	487	SRRHGSSLWGKVNVEDAGGETLGRLLV VYPWTQRFFDSFGNLSSASAIMGNPKVK AHGKKVLTSLGDAIKHLLDLKGTFAQLS ELHCDKLHVDPENFKLLGNVLTVLAIH FGKEFTPEVQASW/QEDGDWSGQCPVLQ IPLSSLPMMQSFQG
7426	15477	A	8076	3	573	FCPRGQEFGEKNKLLVPDAHGVISQRR KATITSLWGK\VNVE\ DAGGETLGRLL VVYP\WT\QRFFD\ SFGNLSSASAIMGNP KVKAHGGKKVLTILGRCQSTLDDLKGT FAQLSELHCDKLHVDPENFKLLGNVLT VTVL\AIHF\GKDFTPEGCRASWQKMGD VSGQCPVLQVPLKPLGP*IQ\SFQG
7427	15478	A	8077	2	347	
7428	15479	C	8078	213	263	MGFHHVSQDCLDLLTS*
7429	15480	C	8079	637	1452	MGIAAASVLGD LAVVFGMHVPAQADG QDHPQELDHGHTHAHAEDDAQVLLQPR LHLLHAALLVHRPVLRVATLGPVAGG LAEALPHRKAVVLFPLDFAGTGVGDLR AIHEL SVVCPVVEADPAAALHLSLHVVP GILQAVLATAVVVSNELSHDATHLLLQL AHVEVEEGPGRHLGNEDQE QESKVQPQ QAADLV DGADAAQEAHEHSDCPHADED IGPHPKRAGGGLQDRDETALVGQDPHPE AQDHCAQDKEDQVEEEEKVFGDFDTG*
7430	15481	C	808	324	500	MGNWGRSSFLKLQNLVFLKMRSDQA QWLTPKIPALWEAEGGSSEVRSLRSW STW*
7431	15482	A	8080	226	314	
7432	15483	A	8081	2	350	KTLLFFFFRFEPHNL TSMICGLVYNQP PPQHLVHILLKRIWPQGNILGINKKRP TVAHTCNPSTLGGRRGRITRSGVRD*PG QHSESPSLPTIQKNYPGVMAGACNPSYS GG
7433	15484	A	8082	172	287	IVYASEEKI*TFQEQGWPGAVAHTCNPST LGRRGGRITRSGDRDHPG*HRPP
7434	15485	A	8083	14731	15030	IAGCRPGAVAHSCNPSTLGGRRGGQ/TLR SGV*DQPGQYGETPSLLKIQLGRRGGR RLKSQLLREAEAGESLEPGRQFAVSRHR ATALQPGNRARLHLKK
7435	15486	A	8084	1	193	
7436	15487	A	8085	1	346	
7437	15488	A	8086	3	522	

7438	15489	A	8087	1	840	HMELPYGTLTDDMRRNLNIPVLQDDGFL FLWVTGRAMELGRECLNLWGYERVDEII WVKTNQLQRIIRTGRTGHWLNHGKEHC LVSSSGAQFNWSTKKNHLISY*EKVQR CGFIR*SVILW*AGGVKENPQGFNQGLD L*CDRS*GMCFSGLQSFHIFVGYQLFMV GCILIPRFFLI*IIIIIGKGLGAILCNLKKQ LVFIS*VRSTSHKPDEIYGMIERLSPGTR KIELFGRPHNVQPNWITLGNQLDGIHLLD PDVVARFKQRYPDGIIISKPKNL
7439	15490	A	8088	13	323	
7440	15491	A	8089	3	218	
7441	15492	A	809	1734	1910	NWVGGQQEGREFFQV*WATDLKSA*GE EIEPDIPKLKPGGQKWETGLRFLHFDK WFF
7442	15493	A	8091	3	332	
7443	15494	A	8092	1	1431	MHKAGLLGLCARAWNSVRMASSGMTR RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVSRRKQQNVDAQAVATLQGEGL SVTGTVCHVGKAEDRERLVATAVKLHG GIDILVSNAAVNPFFGSIMDVTEEVWDK TLDINVKAPALMTKAVVPEMEKRGGGS VVIVSSIAAFSPSPGFSPYNVSKTALLGLN NTLAIELAPRNIRVNC/LAPGLIKTSFSRM LGEPEDCAGIVSFLCEDASYITGETVVN LSVMFTGGGVCRAASWKEGGTGTPRTP RESRQREPGETSSTDQTENKVWNLPA NPQRPAAGPVRRKTNKQKGIASSTAKD SINIRTGKDIHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRNQNVSSLPKEYKS SPAREQNWENKFDDLTDVSFRRSVITN YTQLKEHVLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTVQELHEGYTS FNS
7444	15495	A	8093	195	434	
7445	15496	A	8094	43	1601	SMHKAGLLGLCARAWNSVRMASSGMT RRDPLANKVALVTASTDGIGFAIARRLA QDGAHVVSRRKQQNVDAQAVATLQGE GLSVTGTVCHVGKAEDRERLVATAVKL HGGIDILVSNAAVNPFFGSIMDVTEEVW DKTLDINVKAPALMTKAVVPEMEKRGG GSVVIVSSIAAFSPSPGFSPYNVSKTVLLG LTKTLAIELAPRNIRVNCLAPGLIKTSFS RMLWMDKEKEESMKETLRIRRLGEPE DCAGIVSFLCEDASYITGETVVNLSVMF TGGGVCRAASWKEGGTGTPRTPRESR QREPGENQARSSPRMALRPEFPESASTS WMGPEPVGNRERPCPKPARKVGASPRAL RRLGSATRMLSRALRAGVGARAPRPG GGRGAHATATVWSGLASAAALTARALL KRSLACAAAPQRCGWRRLLCSSLGSRG QGGQAHRGHLRVRYGTASVFGTPRL VASQIQHVPSGPAPRPGASHPATPSIQL RQPLHLSFDIAVPGASSAGAGA
7446	15497	A	8095	2	172	
7447	15498	A	8096	3	823	
7448	15499	A	8099	346	461	
7449	15500	A	81	457	489	PP*ITLG*KTCSQARWLMPVIPTLWKA EVGRSLELRSLRPAWATRRNPSTKN/LKIS WGRQGSSELRSRHCTPAWQHSETPI
7450	15501	C	810	226	306	MTTSPPPSALQKKEMEILPVILRVPS*

7451	15502	A	8100	3	1560	SSLWRRQPELKAYRTMEYMAESTDRSP GHILCCECGVPISPNPANICVACLRSKVDI SQGIPKQVSISFCKQCQRYFQPPGTWIOC ALESRELLALCLKKIKAPLSKVRLVDAG FVWTEPHSKRLKVKLTIQKEVMNGAILQ QVFVVDYVVQSQMCGDGHSEKLDKF WK\AVIQVRQKTLHKKTFYYLEQLILKY GMHQNTLRIKEIHDGLDFYSSKQHAQK MVEFLQCTVPCRYKASQRLISQDIHSNT YNYKSTFSVEIVPICKDNVVCLSPKLAQS LGNMNQICVCIRVTSAIHLIDPNTLQVAD IDGSTFWSHFPNSLCHPKQLEEFIVIECSI VQDIKRAAGAGMISKKHTLGEVWVQKT SEMNTDKQYFCRTHLGHLNPGDLVLG FDLANCNLNDEHVNMNSDRVPDVVLI KKSYPDRTKRQRRRNWKLKELAREREN MDTDDERQYQDFLEDLEDEAIRKNVNI YRDSAIPVESDTEDEGAPRISLAEMLEDL HISQDATGEEGASMLT
7452	15503	A	8101	1	171	
7453	15504	A	8102	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAI/CLPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSGLT
7454	15505	A	8103	48	532	NLMNICRGPCLLPAGPFMRDLAAVA/SV GLP/LVRRQAQVAAGRVLVVALFEGCG GLHSRLDGAAICLPGHCHGSRVEVTYE APQCGLVGLKLLRGGREQSDEGGSLGLT *DAQLGPGEHPAIRAAWE*TAVIISLV SLEPRDGGGGRVARLGAREAINP
7455	15506	A	8104	3	421	AAEASVGL/PLRRQAQIAAGRVLVVAL FGGCGGLHSRLDGAAICLPGHCHGSRVE VTYETHQCGLVGLKLLRGGREQSDRG SLGLT*DGQLGPSAEDYTISSCPHLTGIV GLIPGLDSADGGGRVPRLGARESVRDT
7456	15507	A	8105	94	582	LSHPLPLGRQAQIAA/GRVLVVALLGG CGGLHSRLDGAAICLPGHCHGSRVEVTY ETHQCGLVGLKLLRGGREQSDRGGSGL T*DGQLGPSAEHQSVSVPSLTVIISLRL EVGDGEVAVSPRAGAREAIRNSAPLVVA STTFKPHQVPRGLSCLLLMPRDVVPTVS TAQSAGEPDRGSQSGRGRG
7457	15508	A	8106	2	332	GSLQGLPGQSFSFGGLPLLGRQVRVAAG RVLVVVALFGGFGGLHSRLDGAAICLPG HCHSSRVEVTDQTH*CGLVGLELLRGGR EQSDSGVGLGLTQDGLRSTSEDKVC
7458	15509	C	8107	30	653	MTCSPLLLTLLIHCTGSAHSVLTQPPSV SAAPGQQITISCSGSRNLVGNVFSWYQ QLPGTAPKILIYDNDKRPSGVPARFSGSK SGTSATLAITGLQTGDEANYCAGWDT LDNWVFGGGTEVTVLGQPKAAPSVTLF PPSSEELQANKATLVCLISDFYPGAVTVA WKADSSPVKAGVETTPSKQSNKYAA SSYLSLTPEQ*
7459	15510	A	8108	484	632	PWSHFRRF*LTMRIFIEGLLSAGRRA/W PWGGRDPSPGILQL*SPVGGVRDENL* TFCRGHCLLHGAPFMRLDAAVAFVGLP LLRRQAQVAAGRVLVVALFGGFGGLHS RLDGAAICLPGHCHSSRVEVTDQTH*CG LVGLELLRGGREQSDSGVGLGLT*DGDL GPTSEDSKGATTSKRAAVIISLVVSLEPR DCQGGRVGRHGAREAINP

7460	15511	B	8109	27	1337	MAWTPLLLLFPLLLHCTGSLSQPVLTOSS SASASLGSSVTLTCTLSSGHSYIAWHQ QLPGKAPRSLMKVEGDGSYKTGRGVDP RFGSSSGANRYLSISNFQSEADYCYQ AWDSSTAHS DTGRCGIVGRPPVRQCWP LLLLGLAMVAHGLLRPMVAPQSGDPDP GASVGSSRSLRSLWGRLLLQSPQRAD PRCWPRGFWSEPQSLCYVFGTGTKVTVL GQPKANPTVTLFPPSSEELQANKATLVC LISDFYPGAVTVAWKADGSPVKAGVETT KPSKQSNKYAASSYLSLTPEQWKSHRS YSCQLQWGLGLGASQGGFLYEPVSQCV VFGGGTKLTVLGQPKAAPSVTLFPPSSEE LQANKATLVCLISDFYPGAVTVAWKAD SSPVKAGVETTTPSKQSNKYAASSYLS LTPEQWKQAQKLQLPET*
7461	15512	A	811	168	258	GHLGPRQKQARGL*GHRAVQVLHNYVI PM
7462	15513	C	8110	54	410	
7463	15514	A	8111	1	175	
7464	15515	A	8112	1815	2017	GQGAVAHTCNPSTLGGQGGRITLRSGV QNQPDQHGETLSLLNISGVWWRAPVIAA FQEAETGESLEP
7465	15516	A	8113	1109	1482	
7466	15517	A	8114	266	399	
7467	15518	A	8115	6	361	
7468	15519	A	8116	688	1127	
7469	15520	A	8117	2	311	
7470	15521	A	8118	2	51	
7471	15522	A	8119	203	365	
7472	15523	A	812	229	434	TEELKRCRQTLPSGCGVLPWRARLAVG VS/GRRGRSSSPMLTPSAAPCGNPGSLTS NLPAAGCKPSCQAW
7473	15524	A	8120	152	314	
7474	15525	A	8121	11	380	RLHRFFLGESEQSPASSSSSSSSSLTPSQ TRQHGPLRSIMKDLHSDDYEEESYEVDD NDNDSKMERPANR*RTRSRVSLSDGSD SESRTSS*PLHYEPPLLYTNNNQILEVE SPITHSL
7475	15526	A	8122	124	1924	ITAEGRRRGYHTTTPQQTSGPPGMASS CSVQVKLELGHRAQVRKKPTVEGFTHD WMVFVRGPEHSNIQHFVEKVVFHLHESF PRPKRVCKDPPYKVEESGYAGFILPIEVY FKNKEEPRKVRFDYDLFLHLEGHPPVNH LRCEKLTFFNNPTEDFRKLLKAGGDPNR SIHTSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSTFSKPHKLMKEHKEKP SKDSREHKSAFKEPSRDHNKSSKSSKK PKENKPLKEEKIVPKMAFKEPKPMSKEP KPDSNLLTITSGQDKKAPSKRPPISDSEEL SAKKRKKSSSEALFKSFSSAPPLITCSAD KKQIKDKSHVKMGVKIESETSEKKKST LPPFDDIVDPNDSVDEENISSKSDSEQSP AS\SSSSSSSFHTIPGPGQGPLRSIMKD LHSDD\NEEEADEAEDSDNDSEMERPV\N RGGSRRRV\SLSDGSDSESSSASSPLHHE PPPPLKTNNNQDSWKWKSPKQSK\SD* GKLKNGEC*QGLT*MELVGAFTGRFIDF EEERHILQQIVNLIETGHFHITNTTFDFD LCSLDKTTVRKLQSYLETSGTS
7476	15527	A	8123	2	319	
7477	15528	A	8124	1	323	
7478	15529	A	8125	31	118	
7479	15530	A	8126	1	4938	
7480	15531	A	8127	472	4356	
7481	15532	A	8128	2	236	
7482	15533	A	8129	503	638	



7483	15534	A	813	1060	1542	GRDMVAPDASWKEASGCNAPARICPGQ AFRANGCSDPTLGIQHQRLEFRSRLSPKVL GPVGQPWELGGE*DEAPSASFHWEVL GRLLVGASGSPSVKQEPAAALERARVPGD AARRQPRDRKGPPGPPCCSEHPAPVRAP LVAGLGDAGSGAPRAKLGVM
7484	15535	A	8130	464	2848	GETGMSTALHTTTVAMRCPLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPPMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLGDGERK TNDKDEKKEDGKQAENDSSNDDKTKKS EGDGDKEKKEDSEKEAKKSSKKRNRK HSGDDSFDEGSVSESESESESGQAEKE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEIIISLCK RYPGFMRVALSEPQPERFFRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNW DLTRVRNNGITQHKQIVRNDIKLAACL IHTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEEVRKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTPGLP YPHQTQGLMPYQPRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL APDDVDFF
7485	15536	A	8131	2	433	
7486	15537	A	8132	1073	3545	GETGMSTALHTTTVAMRCPLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPPMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGALQ NRLRVFLSLMETGWFDNLLGH*TKLI AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLGDGE RKTNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKKSSKKRN RKHSDDSFDEGSVSESESESESGQAEKE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIIIS LCKRYPGFMRVALSEPQPERFFRRGWV TFDRSVNIKEICWNLQNIRGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRVRNNGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFV RKHIFNKHAEKIEEVKKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQIIHVPVRVVL PPGLTPGLPYPHQTQGLMPYQPRPIL GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDFF
7487	15538	A	8133	188	391	

7488	15539	A	8134	1	998	MAVMLHSAKWPLPVLQQGLTMQPPLPS KHISERSEEDSRQPLYSVILIFYEAGFAIL VFDKTDQPKKVKRDKEGHYIMVKGSM QQEELTILNIYAPNTGASSFIKQVLGDPQ RDLDSTIIVGDFNTPLSILDRMLRQKIN KDIQDLNSALDQVDLIDYRTLHPKSTEY TFFSAPHHTYSKIDHIIGSKTLLSKCKRTE IITNSLSDHSAIKLELRIEFTQNHHTTWK LNNLPLNDYWVNNEIKAEINKFFETNEN RDTMYQNLWDTAKAVFRGKFIALNGH RRK*ERSKINTLTLQLKELEKQEQTHSKA SRRQEITKIRAELEKIDS
7489	15540	A	8135	1	1674	
7490	15541	A	8136	3	361	
7491	15542	A	8137	3	174	
7492	15543	A	8138	3	326	
7493	15544	A	8139	1	82	
7494	15545	A	814	166	437	ADHLKSGV*DQPGQHGEILSLKLQ*FPG RGG AHL*SQLLGRKQENHLNPGGGGC SEPRLCHWTPVRATVGDSVQKK*KSQD GPRAKLG
7495	15546	A	8140	2	372	
7496	15547	A	8141	1	352	
7497	15548	A	8142	2	395	
7498	15549	A	8143	4274	5256	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLOHKDDNPPLRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYTAKNMKDKLFIET GYNLSQKFIDKFFNVFRRYVYVMVVID FVLVSNIILPKFNHLC THTHTHLTLFST YLKND RDKTIMCKLSLIG*LAESLEFGGS GENVDYNYFCNIVCYRK/ADCFSLKFR YLYEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLC TRIEKKSL SNLILSILWDLGLSV
7499	15550	A	8144	23	136	
7500	15551	A	8145	1	248	
7501	15552	A	8147	3	231	
7502	15553	A	8148	30	217	
7503	15554	B	8149	49	754	MAGAAPRLPWSRPHGSCGWWPMPQLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWAYLPSGSK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRAWPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWTOISGPPALKRFGSAWHSRAFLT HCCTVTTRPRCTTSRPHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
7504	15555	A	815	3	238	SGDRDHPG*HSETLSLLKIQIAGRGGG RL*SRLRLRLRQENGVSPPGGGACSEPRS HHCTPAWETERDSVSKKKKKKL
7505	15556	A	8150	1	593	RQSRWREQLPRLSWRLVPRIMRLVAEC GRSRARAGELWLPHTVATPVFMPVGT QATMKGITFEFLDALGCRICLGNTYHL GLRPGPELIQKANGLPRLS*IWPSLILN GTAAVFQMVSLVSLSEVTEGVFRFSY DGNETLLSPEKSVQIQNALGSDIIMQLDD VVSSTVTGPRVEEAMYSIRWLDRCICS H
7506	15557	B	8151	374	613	MTALDLFLTNQFSEALSYPRTKESMY HSLTYATILEMQAMMTFDPQDILLAGN MMKEAQMCLCQRHRRKSSVTSFSSL*

7507	15558	A	8152	2	1922	VETPPQGSVHSGHLGSVVGDPTGTGN AGERGPRGKGARVLALDSSGMDSSPSLP LIRTPESSLHEALDQCMTALDLFTNQFS EALSYLKPRTKESMYHSLTYATILEMQA MMTFDPQDILLAGNMMKEAQMLCQRH RRKSSVTDSSSSLVNRPTLGQFTEEIHA EVCYAECLLQRAALTFLQGSSHGGAVRP RALHDP SHACSCPPGPRQHLFLLQDEN MVSFIKGGIKVRNSYQTYKELDSLQSS QYCKGENHPHFEGGVKLGVAFNLTLS MLPTRILRLLEFVGFSGNKDYGLLQLEE GASGHSFRSVLCVMLLLCYHTFLTFLVG TGNVNIEEAELKLPYLNRYPKGAIFLFF AGRIEVIKGNIDAVSDGGPGRGWGSLGV SQTSRKSGTCDILRDRIDWGRGGGPREN QPESRGRRGPSGRAAWEDKGGGICGA WDFDWEI*DCSIAVEGGGGRCLEAEVR KAHLFRA*RLGWSLVPPLHYSSLLLFHF VTKNQSPRRGLYLSPTSCKT*EVKPGLE ARSPGSWGPT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVGAGWAPVRLTRRCLQ AIRRFEECCEAQQHWKQFHMCYWEL MWCFTYKGQWKMSYFYADLLSKENCW SKVG
7508	15559	A	8153	1	285	
7509	15560	A	8154	3	409	
7510	15561	A	8155	1	390	
7511	15562	A	8156	17	221	
7512	15563	A	8157	2	366	
7513	15564	A	8158	1270	1692	
7514	15565	A	8159	2	261	RPRRSSSTS*SPH*PPAVAAAPSGAPPWG LSCPRRPRAPPAAPEALQGPGSTRG AAEVAGAAGSRPPQPFYSDFQSRFCCIKS
7515	15566	A	816	4005	4345	SQHFRPRRADHLRSGVQDQPDQHGET PSLLGGRGGRITKSGDRDHPG*HGETPSL LKMQ/EKLAGRGGGRLWSQLLGRRLRQE NGVSPGGRACSEPRSCHCTPAWLTEQDS VSKK
7516	15567	A	8160	44	463	
7517	15568	A	8161	2	318	
7518	15569	A	8162	1	349	
7519	15570	A	8163	38	368	
7520	15571	A	8164	43	376	LSMANGPPHCTECTAFPRESGKNCKVCI FNTDGTILVAWRTGQKADIISVSSKGLLH SFYLLKAVCLEFSPKNTAL*TGLPYSTSK DATAGIPNLQLYDVKTGTCLKSFLQK
7521	15572	A	8165	22	192	
7522	15573	B	8166	852	931	MYSPPDPRTVKSGVDGAMLSRKEKPLG*
7523	15574	A	8167	1	202	
7524	15575	A	8168	2	330	
7525	15576	A	8169	1	281	AAWILKARALTEMVYIDEIDVDQEGIAE MMLDENAI/PSSTPITQAGRPTGFLRPS TQSGRPGTMEQAIRTPRTAYTARPTSSS GRFVRLGT
7526	15577	B	817	1	9234	MGAPTLPPAWQPFLKDHRISTFKNWPFL EGCACTPERMAEAGFIHCPTENEPDLAQ CFFCFKELEGWEPDDPIEEHKKHSSGC AFLSVKKQFEELTLGEFLKDRERAKNKI AKETNNKKKEFEETAKKVRAIEQLAA MD*

7527	15578	A	8170	1	769	QAAWILKARALTEMVYIDEIDVDQEGIA EMMLDENAIQVPRPGTSLKLPGTNQTG GPSQAVRP/TSHEKPTITGLRPSTQSGRP GTMEQAIRTPRTAYTARPITSSSGRFVRL GTASMLTSPDGPFIN*SRLNLTKYSQKPK MAKALPEYIFHHENDVKTALELAALSTE HSQYKDWWWKVQIEKRYRLGMYREA EKQIKSSLKQEMVDFTLYLAKVYVSLD QPVTALNLFKQGLHKFPGEVTLGCIARI YE
7528	15579	A	8171	2441	2706	FCFGLSCSLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPGASSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7529	15580	A	8172	1258	1733	ILFWIIQLNLECEFSWRLRQGRGIMLFFF PFLFFETESHVAQTGVQWCDLGSLOP PPPGLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVQASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7530	15581	A	8174	196	390	
7531	15582	A	8176	84	307	
7532	15583	A	8177	3	383	DIKILIASPSATHIKETTRATSSPYRDTQ SRTASPNRAGKGVIEQTEKSHPRSPNVLS AALSQRITVPEEELNPKILALQNAQRKR KMEHDGSLFQAVGI/DLACRL/LGQSM ESGLPQLTSYDCEV
7533	15584	A	8178	2	691	
7534	15585	A	8179	2	202	
7535	15586	A	818	1577	2233	SGCLLSPPSVGRQNSPVELGGAGLSRAG WAPQERGRAALLISPGPNVRGGPDWLP SVLQMRGLPLWDLGGRPDVGRMSPGGR PGSCWATQLRFHISSLAPLFSWAGRSGS RLNPSTLGGRGGPITRSGDRDHPG*HGET LSLLKIQKISQACWR/CACSPSYGRLRQE NGVNPGGGACREQRSGHCTPAWATEQD SVSKKKKKKSGSTIRLKHILHKII
7536	15587	A	8180	1	62	
7537	15588	A	8181	116	333	
7538	15589	A	8182	55	351	QWSYLPQVMFTGENIPVHPHVYSNGHI CLSILTEDWSPALSVQSVCLSIISMLSSCK EKRRPPDNSFYVRTCNKNPKTKWWYH GKFEHRDIHKGKKM
7539	15590	A	8183	3	474	DGSIMASMQRKQLQKELLALQNDPPPGM TLNEKSVQNSITQWIVYMEGAPCTLYEG EKFQLLFKRRRYPPDSSQGMFTGENIT DHPHVYSNGHMLCLSLTKNWFALSVQS VCLSIISMLSSCKEKTTHDPDNSFYVRT CNKNPKTKWWYHDDTC
7540	15591	A	8184	1	232	
7541	15592	A	8185	3	367	
7542	15593	A	8186	1	203	
7543	15594	A	8187	2	333	ARVKRLGMFNIQHCKKLSSWVLLMKYL GNATAIFFLPDEGKLQHLENELTHDIITK FLAETFCFHFPKLSITGTYDLKSVLGQLGI TKVFSNGADLSGVTEEAPLKLSKAD
7544	15595	A	8188	1	853	EYRRFLVDRHLQLTTGNGLFLSEGLYLV DKFLEDVGRLYHSEALTVNFGDTEEAKK QINDYVEKGTQGKJVDLVKELDRDVFAL LVNYIFFKGWERPFEVKDTEEDFHV QVTTVKVPMMKRLGMFNIQHCKKLSSW VLLMKYLGNATAIFFLPDEGKLQHLENE LTHDIITKFLNEDRRSASLHLPKLSITGT YDLKSVLGQLGVTGVFGRGSQHEKRRT EATKECRKTQNNRGTERVATAT*THNQ KRKRAQQGNTREKENGQRQEGPFVFL MIEQN

7545	15596	A	8189	3	157	
7546	15597	A	819	151	454	FQKIGPGAVAHACNPSTLGGRSRRITRSG GRDHPG*HSETPSLLKIQKLAGRGGGCL *SQLLWRLRQENGVPNGGGACSEPRSRH CTPAWVTERDSVSKKK
7547	15598	A	8190	3	362	
7548	15599	A	8191	3	333	
7549	15600	A	8192	174	361	
7550	15601	A	8193	1	1143	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSLLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYFILSSDIPISTEN*T SYG*SVANLLIILGILEACLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIIRL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKKDSKEEYCO LPRDTNIDDFGTVPRSRYPLVALLTSLDE DDREIYDIISMVSVIHIPDRTYKLSCRILY QYLLLAQQGFHDLKQLFMSANNFTPS NNSSSE
7551	15602	A	8194	2	499	
7552	15603	A	8195	3	486	
7553	15604	A	8196	80	1281	LPAQKLDTCDEDETTALVCDNGSGLV KAGFAGDDAPRAVFPISVGRPRHQVGM VGMGQKDSYVGDEAQSKRGILTLKYPIE HGIITNWDDMEKIWHHTFYNELRVAPEE HPTLLTEAPLNPKANREKMTQIMFETFN VPAMYVAIQAVLSLYASGRTTGIVLDSG DGVTHNVPIYEGYALPHAIMRLDLAARD LTDYLMKILTERGYSFVTTAEREIVRDIK EKLCYVALDFENEMATG/APSIHPPMEKS YELPDGQVITIGNERFRCPTL/FQPSFIG MESAGIHETTIVNSIMKCDIDARKDLAYA NNVMFGGHPRLYPWEFADRMQERDSP ALAPQAPMEDQGFIRPRRSAYSVWIG RLPSWPSLSHLPSKMWITEAGSTDEAGP FPSSNRKCF
7554	15605	A	8197	2	228	
7555	15606	A	8198	1	369	
7556	15607	A	8199	1	416	
7557	15608	A	82	999	1523	WEMVEIWSYSSSEQEHQLIKLSYQRIKPL PHAHWWPFNPSGLPPEASK*PPG*TL/LGI FLGKKA*LQTFPLNYIRLENMQPRHGGG CPVIPTLWKAEVGRSLELRLPAWATR RNPISTKNPKLAGGARAH*SPGTPEAEV GGSPPEP/GGRQGSSELRSRHCTPAWQHSE TPIS
7558	15609	A	820	1362	1647	
7559	15610	A	8200	2	396	
7560	15611	B	8201	1	555	MESTYMPINSGLDKENVESECKAYNPRP FCKTYTMDKQPLNTGEQKDMTEFFTDLI TKIEEMSPESLSRCEELHLHAENLSRRV WELLMLLPTCPNMLMAFQNISDEQGSYS DLYPDSDDSSDQVENSKNWSCKISSN FTSSSKTIWYFSAVWEQLRYTLDNNVL KKSVIIQKDSSESYEYD*
7561	15612	A	8202	1	901	
7562	15613	A	8203	1	407	

7563	15614	A	8204	2	1149	PDLELPRARPQLVNSPGADKMETNSSLP TNISGGTPAVSAGYLFLDIITYLVFAVTF VLGVLGNGLVIWVAGFRMTHVTITISYL NLAVADFCFTSTLPFFMVRKAMGGHWP FGWFLCKFVFTIVDINLFGSVFLIALIALD RCVCVLHPVWTQNHRTVSLAKKVIIGP WVMALLLTLPVIIRVTTVPGKTGTVACT FNFSPWTNDPKERINVAVAMLTVRGIIRF IIGFSAPMSIVAVSYGLIATKIHKKGLIKV QVRP*GALSFA\KAFFLCWSPYQVVA P**PTSQESREVNCKGMYQRKLGIAVDV NKVPLAFFNS/CAFNPMLVFMG\QDFR ERLIHALPAKSGRGPLTEDFNPKPVPQLT NSTLPSAEVALQAK
7564	15615	A	8205	2	386	
7565	15616	A	8206	2	294	
7566	15617	A	8207	541	711	SEVSAMVFLFFFF/CFEMESRSAAQAGV QWCNLGSLQALPPRFTPFSCSLPSSWD Y
7567	15618	A	8208	2	1730	
7568	15619	A	8209	1	183	
7569	15620	A	821	10289	10708	SQHFGKLRQEDHLRSGVREQPGQHCKT PYLLKIQKLARRSGACL*SQLLRRLRQEN RLNPGGVGCSEPRLLHCTTAWTLQ*DPV SKKLKKKYIERQRYHQHMKHPWSTKIQ YVCMDG*HRSVEKQIIQTLCMFVFTHTY
7570	15621	A	8210	3	320	
7571	15622	A	8211	2	198	
7572	15623	A	8212	110	363	
7573	15624	A	8213	1	849	
7574	15625	A	8214	1	993	
7575	15626	A	8215	23	627	
7576	15627	C	8216	79	171	MDISGTKCDFTVQVQLRFCLSETKATQP TN*
7577	15628	A	8217	3	630	
7578	15629	A	8218	1	188	
7579	15630	A	8219	1	2295	
7580	15631	A	822	662	766	
7581	15632	A	8220	143	5972	
7582	15633	A	8221	3	753	
7583	15634	A	8222	57	272	
7584	15635	A	8223	1	218	
7585	15636	A	8224	180	293	
7586	15637	A	8226	3	145	
7587	15638	A	8227	16	546	QLNGRSIRHEVMSHRKFSAPRHGSLGFL PRKRSSRHRGKVKSFPPKDDPSKPVHLTA FLGYKAGMTHIVREVDRPGSKVNKKEV VEAVTIVETPPMVVVGIVGYVETPRGLR TFKTVFAEHISDE/CRLPLRQKKAHLME IHVNGGTVAEKLDWARERLEQQVPVNP VFGQDEMIDVI
7588	15639	A	8228	3	348	TRHIVREVDRPGSKVNKKEVVEAVTIVE NTPMVVVGIVGYV/ETPR/GLRTFKTVFA EHISDECKRRFYKNWNKSKKIDLKFDITT SKLCHGRLQTMEKKAFMGPLKKDRIA KEEGA

7589	15640	A	8229	1	956	VNHAPAHASDGVMSHRKFSAPRHC\SLG FLPRKRSS\HRGKVKSFPMDDPSK\PVH LTAFLGYKAG\MTHTVRE\VDRA\PGSKVN KKIEVVE\AVTIV*DTTHWCLLGIVGYVG NPSEGLRD\TFKTCLLLEHISY*MPRRRFL *RIWALKS*EGRPLPKYCKEIGKDED\GK KPAWKKDFQQH*KKLLAQVHPCIAQT QMRLPL\ARQK\KAHLMEIQV\NGGTVA RESWDWAREKLE\QQVPVNQVFGQDEM NDV\GVTKGK\GFKGVTRS\WPTN*LPFK AHLG\LSRVACFGAWH\PARAHWHVAR AGQKGYQPYTLLVHSDL
7590	15641	A	823	749	853	
7591	15642	A	8230	1	375	
7592	15643	A	8231	1	399	
7593	15644	A	8232	2441	2706	FCFGLSCSLLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPG\SSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7594	15645	A	8233	1275	1749	ILFWIQLNLECEFSWRLRQGRGIMLFFF PFLFFFETESHVAQTGVQWCDLGSQ PP\GLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVGOASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7595	15646	A	8234	3	200	DALAFVIKVFAAEEVDGCSVTGGS/HNH SVASGSNHRTRFCFTVYLSSIVSWRY*SC RCRECRGRAF
7596	15647	A	8235	1	1214	
7597	15648	A	8236	24	183	
7598	15649	A	8237	256	491	
7599	15650	A	8238	243	385	
7600	15651	A	8239	3	403	SCYGFNVVRGQVSDGGQLRSINGELYAP LQH\NHVNVEGATHKQVVDLIRAREKEL ILTVLSVPPHEADNLYPSDDSLGQSFYDY TEKQAVPISVPRYKHVEQNGEKFVVYN VYMAGRQLCSKRYRQFMAILHQL
7601	15652	B	824	1	855	MDVVDPDIFNRDPRDHYDLLQRLGGGT YGEVFKLFAKCYTCIHTYDAMRVFLM TKSGSQLPRLKEKGK\WYERV\TGGRSAN VHYIIVYCESVHFLPILLPTLSTKPLSSPEL NAAASYVPFPPIIHIDTAASMCYLFHMY VGVRAAGGIGDEIEDPAGDEYEL\YRVVF DITFFFFVIVILLAIQGLIIDAFA\GELRDQ EQVKEDMETKCFICIGSDYFDTTPHGFE THTLEEHNLANYMFFLMYLINKDETEHT GQSRALCRAFRGMRETGD\LRALKELA V*
7602	15653	A	8240	1	706	
7603	15654	A	8241	323	496	
7604	15655	A	8242	1	483	
7605	15656	A	8243	2	740	
7606	15657	A	8244	249	390	
7607	15658	A	8245	24	426	
7608	15659	A	8246	1	240	
7609	15660	A	8247	935	1150	
7610	15661	A	8248	190	584	
7611	15662	A	8249	201	364	
7612	15663	A	825	65	290	HLVSSLAKGKLAVRQAPFARVPPQHP*V KVKNWDP\LLQPPPCRGLALKVTGCRVL GTEGLPHLKDFPIRAATQPL
7613	15664	A	8250	1	1122	

7614	15665	A	8251	1	1197	MHKDWVVDVSGEHKEALLHELQCLDS TLKPAAHGQTRLVDLSLSEHKAQGTGA HVYEERHQVSVSRDDVGCVPSECLAR ACGAEVGCSNIAYPKLVMEMLPI/GFSG AGDFPGPPLSNPLFLEAFDP SGLRGLMIA VMLAALMSSLSIFNSSSTLFTMDIWRRL RPRSGERELLVGRGTIPSTPPAPQSRLSF LLPETPPLERYLLGLVVMIDLWLIVIVALIG VSWAWIPVLQDSNSGQLFIYMQSVTSSL APPVTAVFVLGVFWRRANEQGAFWGLI AGLVVGATRLVLEFLNPAPPCGEPDTRP AVLGSIHYLHFGVALFALS GAVVVAGSL LTPPPQSVQIENLTWWTLAQDVPLGTKA GDGQTPQKHAFWARVCGFNAILLMCVN IFFYAYFA
7615	15666	A	8252	1	624	
7616	15667	A	8253	88	627	
7617	15668	A	8254	3	437	
7618	15669	A	8256	220	415	
7619	15670	A	8257	2	359	
7620	15671	A	8258	1	1270	RTRGRTRGELVLESGEWRWLLERCRPG GAVALILLAAVVS\CAVSQHAPPWTEDC RKSTYPPSRPTYRGAVPWDTI/HVLDLPP YKRWDELM LDMAPV/LSKVIVNSLKNMI NTFVPSGKIMQVVDEKLPGLLGNFPGP FEEEMKGIAAV/SLDIPLGEHSFNIFYELF TICTSIVAEDKKGHLIHGRNMGFVGVFLV WNINNDTWVITEQLKPLTVNLDFQRNN KTVFKASSFAGYVGMLTGFKPGLFSLTL NERFSINGGYLGILEWILGKKDAMWIGF LTRTVLENSTSYEEAKNLLTKTKILAPAY FILGGNQS GEGCVITRDRKESLDVYELD AKQGRWYVVQTYNDRWKHPFLDDRR TPAKMCLNRTSQENISFETMYDVLSTKP VLNKLTVYTTLIDVTKGQFETYLRDCPD PCIGW
7621	15672	A	8259	108	988	TARGSKARSGGTRWSLGPSSSGGRRSW QPLVISRAV*H*GKSSRHQPLYSGHPHLG PVSHRGGPGPVRQPAAT*RPACASKLVQ PWH*WGP*LGSPALAGHLCRTGCEES HHTCFPGYVKP*RL*ALPGGRP*VGER ARARPDEPREAAGFCGTEEQPHDPAHP RLKRDCL/PSVSQA AVSTTASAGFPPAW AASAGFPPTWTPNLSPATLGMQRSSCAL TFRRICRFLSDNKWMQRSITSM AIWICN GSGGSTSGRVSFSSSLGGTDCSSSSLSKS ETFPSATSFSLR
7622	15673	A	826	230	652	GLSAPVAADPSLEPTPALHASIRPEADLQ P*PRTPLRSWGS/PGVRSRPTGDP SGVT RLHRAIHQ/PITSSSTWVTCTGPLCSVLIS PSQQESAPKRTVLEEHLRPPGAHADA HSGQLRAWPGQQREHGQEASQWEQHP
7623	15674	A	8260	1	319	
7624	15675	A	8261	19	373	AVFFFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFFSSSSSSFFFFSFFLFFFKLKELRLVI *PLNPEN*ESCPLFSPVNLDMPTFKDKR WKVNWARSTSRQQLLESARTKSWAERE GGTRWRAW
7625	15676	A	8262	227	420	KNFLPNCSAKELFFFFFFFFFLLLLLLL LYFKF/MI*WFKHLAFLLAFILSPTAL* RGVFFHH
7626	15677	A	8263	400	582	
7627	15678	A	8264	1205	1681	
7628	15679	A	8265	1	403	
7629	15680	A	8266	3	397	
7630	15681	A	8267	36	446	



7631	15682	A	8268	1	453	RHERHERHEELMTEGEDQFDVGSAAAR KEIIRNKIRAIGKMARVFSVLREESESVLT LKGLTPTGMLPSGVLGGRTLQSATVE AIEAEKAIRGFSPPHRCSFEEAKGLDRIN ERMPPRKDAVQQDGFNSLNTAHATENH GTGNHTAQ
7632	15683	A	8269	644	809	
7633	15684	A	827	108	1102	RMTQCLSECLICKFLSGKVTLGQAQWLT HVIPALWEAEAGRSPEVGRSRPSLAGMV KSRL/VLKIQKKKKKKKISRAWWHMPV VPATWEAEAGELLEPGKAEVAARRDRA TALPAWGSQADGK*G*GLSAPVAADPSL EPTPALHASRRPEADLQP*PRPPPLRSWG SQVCEVPGLGTPPGSPASQSHPTSPYL PLPGSPARVPCARCSSRPASKRARQSAPC GRAPTSPAARGSRRTQRAAQLARSAA RTRTEASAVGTAPAAGRTGRGGPDQKE FVHGLVPLKQDNGRLQCTAQERAPRAR TLRHTARPAAFGVLDLGGNHVLPQC
7634	15685	A	8270	37	235	
7635	15686	A	8271	2	230	
7636	15687	A	8272	516	693	
7637	15688	A	8273	2	434	
7638	15689	A	8274	3	417	RQAWHKAGLHAADWAGRARSLLGDSH TSWSAGSIPGKHYQAVGLHLWKVEKRR VNLPRVLSMPPVAGTVCHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEVLLRVFS TGRVLSAIRAVAKNTTPGAALPAVERG T
7639	15690	A	8275	308	614	HGSHGIALRPRQSQAQPLVHKVCCFQEE QMGAPGEGKGPECGSRICRLLAQGLGFHL VCLDRV*HLAPHCSLSLHGCGPHDVPFL VAKRSFLGLEGLSSSP
7640	15691	A	8276	11	161	
7641	15692	A	8277	163	437	
7642	15693	A	8278	1	660	
7643	15694	A	8279	2	1246	SCSAPEELCSLRPTLGARRGNCEAKVTG DRAFOICSVDLGAPPPMLAARLVCLRTL PSRVFHPAFTKASPVVKNSTKNQWLLT PSREYAT*T*/RLGIRAWGELGQELKEGS IGNHSMGKNILKFDSDGEEWLVAIGGA/ VVGLGSICAYLLALGL/GLN*DLGAI*KR L*FGPQYVKDRIHSTYMYLAGGVGLT ALSIAIAIQNRLLFMELP*WRRLLGWTI GVDLWQPWLGAGMLVRSIPYDQSPGPK HLAWLLHSGVMGAVVAPLTILGGPLLIR AAWYTAGIVGGLSIVAMCAPSEKFLN MGAPLGSAGVSVFVSSIGI*CFPPPTD/T VAGATLAYSVAMYGGISSFLSMFLLYDT PESSSRAEVSMPYGVQKYDPINSMLS IYMDTLNIFMRVATMLATGGNRKK
7644	15695	A	828	241	1104	
7645	15696	A	8280	325	432	
7646	15697	A	8281	1	293	
7647	15698	A	8282	1	366	
7648	15699	A	8283	780	891	
7649	15700	A	8284	44	155	
7650	15701	A	8285	336	414	
7651	15702	A	8286	1	294	KLDTVVEFPIRGLNMSEFVCNMSARPYV YDLIAVSNNHYGAMGVGHYKAAAYVLFY QRRDDEFYKTPSLSSSGSSDGGTRPSSSQ QGFGDDEACSMMDTN
7652	15703	A	8287	302	486	
7653	15704	A	8288	1	620	
7654	15705	A	8289	1	804	
7655	15706	A	829	95	462	

7656	15707	A	8290	164	399	
7657	15708	A	8291	1	2226	
7658	15709	A	8292	876	1102	
7659	15710	A	8293	2	426	
7660	15711	A	8294	1	128	
7661	15712	A	8295	33	279	
7662	15713	A	8296	198	779	
7663	15714	A	8297	1	441	
7664	15715	A	8298	132	700	
7665	15716	A	8299	303	617	AKPSSGFECRSRFAFLSKECGKQLGPSSSS ALSLSGSFFHLGAPS*PRTPRKSDGARCR PHPPSSMIGVQLLLGGCLAQHPHRAQL LDADVPTTISIKHVKGQP
7666	15717	A	83	2	448	LHCCPLQLKMOVACRAIGILSRFFAFRFLR SRGYICRNFTGSSALLTRTHINYGVKGD VAGARVINSTNSKVNTLITELQSQFSQVM NEILSSYQIRRAVLISSKPGCFIASSDINIL TACMTL*EVSHRSSEAQIIVQKLEMTTLS IVA
7667	15718	A	830	2	648	
7668	15719	A	8300	50	257	
7669	15720	A	8301	110	179	
7670	15721	A	8302	187	571	
7671	15722	A	8303	2	150	
7672	15723	A	8304	227	857	GDSRSRVTRRQDTAWNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAEKAES HNDGPVRLNPNIAKMKEDILYHFNLT SRH/NFPQALFGDVAKFVCVGGSPSRNEK PSSGCR LGAE LGLDCPGRDYPNICAGTD RYAMYKVGPVLSVSHGMGIPISIMLHE LIKLLYYARCSNVTHIRIGTSGGIGLEPGT VVITEQAVDTCFK
7673	15724	A	8306	1	714	
7674	15725	A	8307	225	382	
7675	15726	A	8308	2	862	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFIIAVLMSAQESWAIKEEHVHQAEP YLNPDQSGEFMFDFDGDEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPITNPPEVTVLTNSP VELREPNVLICFIDKFTPPVVNVTVLWRNG KPVTTGVSETVFLPRIEDHFFRKHFHYLP FALPSTEDVYDCRVEHWGLDEPLLKH EFDAPSPLPETTENVV CALGLA VGLVGI IIGTIFHHSRELKSNCRQKRKGGLCKAQ WR
7676	15727	A	8309	2	223	
7677	15728	A	831	90	401	
7678	15729	A	8310	1	3252	MELSVTLVSRAPRPLPVFRQLNTAIAVS QMSSGQCRLAPLIQVIQDCSHLYHYTVK LLFKLHSCLPADTLQHRDRFHEQFHSL RNFFRRASDMLYFKRLIQIPRLPEGPPNF LRASALAEHIKPVVVIPEEAPEDEEPENLI EISTGPPAGEPVVADLFDQTFGPPNGSV KDDRDLQIESLKREVEMLRSELEKIKLEA QRYIAQLKSQVNALEGELEEQRKQKQK ALVDNEQLRHELAQLRAAQLEGERSQ
7679	15730	A	8311	3	3253	
7680	15731	A	8312	1	673	
7681	15732	A	8313	177	393	
7682	15733	A	8314	177	400	
7683	15734	A	8316	1	473	

7684	15735	B	8317	549	602	MWWNSLDGIRNIVLSNPKKRNTLSLAM LKSLSQSDILHDADSNDLKVIISAEGPVFS SGHDLKELTEEQGRDYHAEVFQTCISKV MMHIRNHPVPVIA MVNGLATAAGCQLV ASCDICRGERQDLFCHSWVPRKVALEM LLTGEPISAEALLHGLLNKGGPEAELOE ETMRIARKIASLSRPGVSLGKATFYKQLP QDLGTDYYLTSQAMVDNLALRDRQEGI TAFLHKRPVWSHEPV*
7685	15736	A	8319	272	364	
7686	15737	A	832	276	488	
7687	15738	A	8320	1	322	
7688	15739	A	8321	37	344	
7689	15740	A	8322	3	412	
7690	15741	A	8323	37	438	
7691	15742	A	8324	2	424	
7692	15743	A	8325	543	848	
7693	15744	A	8326	2	242	
7694	15745	A	8327	2	246	
7695	15746	A	8328	294	402	
7696	15747	A	8329	259	350	
7697	15748	A	833	186	537	IWFPLRRRKARQEEKSGLGAPRSPSHNY PPGYLGCLGKTINTS*TYILDQSNIGKRVA AILN*ILGGRKLRLEKSLSCQPKVEELYE RVAW/IP*KPGCLLLVSVKVRNVFDWCT WVY
7698	15749	A	8330	2	409	RPPPPVSSVPGPRDQLGVTPLSGRHSL CCWVRIVFPESDGAP*MASFPRVNEKEI GKLLNLVDHTEVVRLDTFAPDGLILV SASRDKTLRVWDLKDDGNMMKVLRGH QKLVSYSCAFSPDSSMLCSVGASKA
7699	15750	A	8331	453	684	SLRFVLSVFCQSLLGKAESSKYDTRETP KAWKESAPELLGWAHSSGLTCDIKCC RARDLPWSGPKIHTSVMCPSS
7700	15751	A	8332	1	92	
7701	15752	A	8333	67	301	
7702	15753	A	8334	3	276	
7703	15754	A	8335	1	564	
7704	15755	A	8336	1	364	
7705	15756	A	8337	3	103	
7706	15757	A	8338	1	744	
7707	15758	A	8339	3	266	
7708	15759	C	834	79	405	MIGGTPQMFFISGAKGQWSPSLQPPRA HRSSPWAPSSKSTSGGTAALGSLGSKDY FPRTGDGVVELRRSDQRRALPGCPTVL RTLLPQQRGDRDLQQLRHHELRL*
7709	15760	A	8340	481	637	
7710	15761	A	8341	1	3335	LNLKFEIEVLCKNLALDINELKPGNLLKD KDRLKNLDEQLSAPKKDVQPEELPPITT TTTSTPATNTTCTATVPPQPQSYHDIN VYSLAGLAPHITLNPITPLFQAHPQLKQC VRQAIERAVQELVHPVVDRSIKIAMTTC EQIVRKDFALDSEESRMRIAHHMMRN LTAGMAMITCREPLLMISITNLKNSFAS ALRTASPPQREMMDQAAQLAQDNCE LACCFIQKTAVEKAGPEMDKRLATEFEL RK
7711	15762	A	8342	1	520	KMDSTEPPYSQKRYEEIVKEVSTYIKKIG YNPDTVAFVPISGWNGDNMLEPSANMP WFKGWKVTRKDGNASGTTLEALDCIL/ PPTRPTDKPLRLPLQDVYKIGGIGTVPG RVETGVLPKPGMVVMHHEALSEALPGD NVGFNVKNVDVKDVRGNGAGDSTNE PTMEANGFT
7712	15763	A	8343	1	443	

7713	15764	A	8344	41	665	
7714	15765	A	8345	2	394	ADIERLRMRRVMAAAATHASAIISGWNGD NMLEPSANMPWFKGWKVTRKDGNASG TTLLEALNCGIGTVPVGRVETGVLKPG MEVTFAPGNVTTEVKSVEKHHEALSEAL SGDNAGFNVKNVSVKDVRRGNV
7715	15766	A	8346	1	461	MLEALDCILPPTRPDKPLHLPLQDVY KIGGIGSVPVGRVETGVLKPGMVVTFAP VNVTEVKSVEMHHEALSEALPGDNVG FNVKNVSVKDVRRHGNVAGDSKNDPPM EAAGRFAVRDMRQTVAVGVIKAVDKK AAGAGKVTKSAQKAQKAK
7716	15767	A	8347	1	743	
7717	15768	A	8348	208	945	NWFKGWKVTRKDGNASGTTTLEALDCI LPPTRPDKPLRLPLQDVYKIGGIGTVPV GRLETGVLKPGMVVTFATVNVTEVKS VENHLVAPLDCPRTFPGPTRPSTYIKKIG YYPDTLAFEPISGWNGDDMLEPSANMP WFKGWKVTRKDGNASGTTTLEALDCIL PPTRPDKPLRLTIQDVYKIGGIGTVPVGR RVETGVLKPGMVVTFAPVNGTT*VKS AMHHEALSEAHSDNVGFNVKNV
7718	15769	A	8349	1	1434	RGITIDISLWKFETSKYYVTIIDAPGHRDF IKNMITGTSQADCAVLIVAAGVGEFEAGI SKNGQTREHALLAYTLGVKQLIVGVNK MDSTEPPYSQKRYEEIVKEVSTYIKKIGY NPDTVAFVPISGWNGDNMLEPSANMPW FKGWKVTRKDGNASGTTTLEALDCILPP TRPTDKPLRLPLQDVYKIGGIGTVPVGR VETGV/LFVPISGWNGDNMLEPRANMP WFKGWKVTRKDGNASGTTTLEALDCILP PTRPTDKPLRLPLQDVYKIGGIGTGPVGR LETGVLKPGMVVTFAPGNVTTEVKS VETLHEALSEAFPGDNVGFNVKNVSVKDV RHNHGVAGDSKNDPPMEAGFTAQVILNH PGQISTGYAPVLDCHTAHIACKFAELKE KIDHRSGKKLEDGPKFLKSVDAAIVDMV PGKPMCYESFSYPSLGCFVRDMRQIV TVGVKAVDKKTAGAGKVTKSAQKAQK AK
7719	15770	A	835	1	321	
7720	15771	A	8350	1	1254	
7721	15772	A	8351	1	1195	
7722	15773	A	8352	1	2471	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKSFKYA WVLDKKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKMDSTEPPYSQKRYEE MWLREVSTYIKKIGYNPDTVAFVPISGW NGDNMLEPSANMPWFKGWKVTRKDG NASATTLEALDCILPPTRPDKPLRLPL QDVYKIGGIGTDPAGRVKTGVLKPGMV/ VAPFAPVNGTTEVKSVEMHHEALSE/AL LLGDKGAFNVKNVSVKDVRRGNVAGD SKNDPPMEASGFTAQVILNHPASQKNAR HMPLELDCHTAHIACKFAELKEIDRRS GKKLEDGPKFLKSGDAATVDMVPGKPM CVESFSYPPPLGRFAVRDMRQTVAVGVI KAVDKKAAGAGKVTKSAQKAQKAK
7723	15774	A	8353	184	819	ETEIKMASRGKTETSCLKQNLEQLDRL MQQLQDLEECREELDTDEYEETKKETLE QLSEFNDSLKKIMSGNMTLVDELGMQL AIQAAISQAFKTPKVRILCGKK/HPVQL RPR*AEMDRDLMVGKLERDLYTQKVE ILTALRKLGEKLTADDEAFLSANAGAILS QFEKVSTDGRPPSYMNYLLDSHPSKNI DVPSKISFLLKIQDL

7724	15775	A	8354	1	387	
7725	15776	A	8355	3	1022	FLASLQWVQTSSFSSEKFVITDLLKPTSV NLSKSFSVQLCSIAGGSLRPTPEIQEVKTP EELETFMLKHGENIIDTLGAEDRLEKEL KSGSLVPCIPAAPAVTKRGQGTAPAIASV GGSPKPWQLPRGVGPVGAQKSRTTEVWK SLPRFQRMYGKHLDAQNDRSTDLSHSAP GKATDTQCQPLKAAKSGLYPAELKRWS CPWLWEPTFCISVTWSDLEQLRKIRRRSP HEDTESFTVYLRSDVEAKSLEVWGSPEA LAREKKLRKEAEIEYREKGSINSATL/EF SRYLSDTRY/RTRSCAWCLKCICKIIPM ANSCSPNTCSLCLLYSSPALPWTLKFA
7726	15777	A	8356	4	516	
7727	15778	A	8357	1	248	
7728	15779	A	8358	3	4135	
7729	15780	A	8359	2	417	
7730	15781	A	836	101	290	
7731	15782	A	8360	43	239	
7732	15783	C	8361	141	356	MSFDCGFGTLPILLSPICCLGSYSNKVISP GLXXXXXXXXXXGGALLKDPWGGPIFP GGGKKFFFLFGGGF*
7733	15784	C	8362	22	159	MRGVFPLFPLKXXXXPKGLKIXXXGPI MSPPQKKVPFQKSQGGF*
7734	15785	A	8363	64	240	TLKFWKEGGPISPPQKKGPFKIPRGGL *GPPKKKKNFSFPPVKLGPPKGIFKRAP P
7735	15786	A	8364	19	471	
7736	15787	A	8365	3	399	
7737	15788	A	8366	186	840	
7738	15789	A	8367	7	633	PTITNVWSETSQELADGLRRGSQGDVSQ QNGPPRKHIVERYTEFYHVPTHSDASKK RLIEDTEDWRPRTGTTQSRFRILAQITGT EHLKESEADNTEKANNSQEPSPQLASSV ASTRSMPELDSPTSGRPGVTSLTAAAF KPVGSTGVKSPSWQRPNQGVPTGRISN SAAYSGSVAPANSALGQTQPSDQDTLVQ R*PTITNVWSETSQELADGLRRGSQGD VQQNGPPRKHIVERYTEFYHVPTHSDAS KKRLIEDTEDWRPRTGTTQSRFRILAQI TGTEHLKESEADNTEKANNSQEPSPQLA SSVASTRSMPELDSPTSGRPGVTSLTAA AAFKPVGSTGVKSPSWQRPNQGVPTG RISNSAAYSGSVAPANSALGQTQPSDQD TLVQRAEHIPAGN
7739	15790	C	8368	78	386	MTHLEAQNKIKGCTGSLNMTLQRASAA PKPEPGSCSKAHSHQVRFRDFSGASRG REEDPRVTVNQNGKIPPRKPPHCG ALYRVLSCHTFTVMPARRD*
7740	15791	A	8369	20	442	
7741	15792	A	837	21	215	
7742	15793	A	8370	49	354	
7743	15794	A	8371	239	401	
7744	15795	A	8372	141	351	
7745	15796	A	8373	239	474	MRMVTWWRGVFLATSPSPRRPSQLEKQ YTALYRKATSPN*FAPNCYPDPQPHLG* LAPVAHVPL*QRRKAESPSSN
7746	15797	A	8374	1	740	MVSDIRKEDGMNVLPKYPNVGVNFSF AGVYLASETLPGSFAHPEATSRGAVATG TTHLASAVEPNGDSWCKQSRPVSVHYI RINITGWVCTCCDIERNIMLSPLNIRNNI TARLRPKGTQMPLREQRYTGIDENAHV VERRVF/RVPALHLRRPSQLEKQYIALYR KATSPN*FAPNCYPDPQPHLDRLAPVAH FPL*Q*RKAESPSSN*VARGTCTS*LSKP RTVWKDPVARNRPPVGPT

7747	15798	A	8375	803	985	
7748	15799	A	8376	1	319	
7749	15800	A	8377	339	808	GSQSQGGNRGWFSVPASRGVPPPAVMG VLRARGGRGAGSQSPPPGGCLPMPRWG SGATRSGLGLWWETSDGLETPSRRWVG SS*TL/GGSPVQVY*LVTPDSGSSH*KANS FCLSGDNLIGKKASFRSKQVNQLSSAGS KPNNVDGLGTVGCKVSA
7750	15801	A	8378	588	2278	GWAHGGEACFCVPALHLCRPSQLEKQY PVLY*KATSSN*FAPNYYPDP*PHLG*LP PW
7751	15802	A	8379	779	986	ELQLYWLCKKPPIDIRSHWKSC*AGISTS RLCQLLPKR*GSGVLPADSMMRGKVS SAWHRSLWSSPL
7752	15803	A	838	158	955	KMTSSSEQEEDEKNNQSATPRQTGPATT MNSKGQYPTQPTYPVQPPGNPVYPQTLH LPQAPPYTDAPPAYSELYRPSFVHPGAA TVPTMSAAFFGASLYLPMASVAVGPL GSTIPMAYYPVGPIYPPGSTVLGGKGG YDAGARFGAGATAGNIPPPPG\CPPNAA QLAVMQGANVLVTQVRKGNFFMGGSDG GYTHLVRNQGHLCAREKTSHTLQHFSQ CNCFSHINLKLQFRHMLLGCLSGAQTR HFSNLIRNHVMVA VPP
7753	15804	A	8380	179	795	PAFFFLIPGCAPPVG**IPSNPAVGRS\DF SWTPYTHSPPDAGVEHPPWRTRLPWG VPAKGHQRTGATRSLGFWWDTSGGLEP TPPRRWGSS*LEEARSKCTE**HLTPD LPTERQTASGSQGRJ*C*RKHLS/WSKQV KQLSSAGSNPSNVYGLG/DCWM*SHCSL LNQAQILSRPVVLGLRLGNRQEGSV PWR LTRNYHSGKS
7754	15805	A	8381	1	1029	
7755	15806	A	8382	989	2798	
7756	15807	A	8383	2	396	
7757	15808	A	8384	3	1773	PGGRQQAE GIMVQYELWAALPGASGV ALACCFVAAAVALRWSGRRRTARGAVV RARQKQRAGLENMDRAAQRFRLQNPDL DSEALLALPLPQLVQKLHSRELAPEAVL FTYVGKAWEVNKGTCVTSYLADCETQ LSQAPRQGLLYGVPVSLKECFTYKGQDS TLGLSLNEGVPACDSVVVHVLKLQGA VPFVHTNVQSMFSYDCSNPLFGQTVNP WKSSKSPGGSSGEGALIGSGGSPLGLG TDIGGSIRFPSSFCGICGLKPTGNRLSKSG LKGCYVGQEA VRLSVGPMARDVESLAL CLRALLCEDMFRLDPTVPPLPFREEVYTS SQPLRVGY YETDNYTMPSPAMRRVLE TKQSLEAAGHTLVFPLPSNIPHAETLST GGLFSDGGHTFLQNFKGDFVDPCLGDLV SILKL PQWLKGLLAFLVKPLLPRLSAFLS NMKRSRAGKLWELQHEIEVYRKT VIAQ WRALDL DVLT PMLAPALDLNAPGRAT GAVSYTMLYNCLDFPAGVVPVTTVTAE DEAQMEHYRGYFGDIWDKMLQKGMKK SVGLPVA VQCVALPWQEEVCLRFMREV ERLMTPEKQSS
7758	15809	A	8385	660	772	
7759	15810	A	8386	27	372	
7760	15811	A	8387	685	769	
7761	15812	A	8388	305	425	
7762	15813	A	8389	308	410	
7763	15814	A	839	217	491	
7764	15815	A	8390	3	501	
7765	15816	A	8391	4	318	
7766	15817	C	8392	340	474	

7767	15818	B	8393	317	702	LAEWRPREPMQRKLKVTSLPEPTVVITE QAVDTCFKAEFEQIVLGKRVIRKTDLNK KLVQELLLCSAELSEFTTVVGNTMCTLD FYEGQGRLDGALCSYTEKDKQAYLEAA YAAGVRNIEMESSVFAAI*
7768	15819	A	8394	209	581	
7769	15820	A	8395	227	1302	GDSRSRVTRRQDTA WNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAEKAES HNDCPVRLNPNIAKMKEDILYHFNLT SRHNFPTLFWFEKFGFLGGNPSRMKPF RCLGPEIGLDCPVRDYPNICAGTDRYAM YKVGPSVLSVSHGMGIPSSIMLHELKLL YYARCSNVTIIRIGTSGGIGLEPGTVVITE QAVDTCFKAEFKQIVLGKRVIRKTDL NKKLVQELLLVSAELSEFTTVVGNTM CTLD FYEGQGRLDGALCSYTEKDKQA YLEAA YAAARVPQLFEMESSVFAAMCS ACGLQA AVVCVTLLNRLEGDQISSPARN VLSEYQQRPQRLVSYFIKKLSKA
7770	15821	A	8396	3	337	
7771	15822	A	8397	2	375	NHEKDDNSLKIISNASCTTNWLTPLAKGI HDNFGIVEGLMTTVHAITATQKTGDGPS GNWGVMAAGLSKTSSLPLLG/LGKAGG KVIPELNGKLTGMFRVPTGNVAGVDLT CRLKKPGKYDDIK
7772	15823	A	8398	3	1141	IRHEVRQSAASSFASPAEPHRSMTMGKV KVG VNGFGRIGRLVTRAAFN SGKVDIVA INDPFIDLNYMVYMFQYDSTHGKFHGT VKAENGKLVINGNPITTFQEPKIPSKIKV GGDAGRLKYVVEFHLAVFTTMEKGLG ASFRCRGGAKRVNQLPPSG*CPPCFGHG V*TIEKYDNSLKIIISNASCTTNCLTPLA KVIHDNFGIVEGLMTTVHAITATQKT GWALPGNCGVMGPRGSSRTSSLPLAA AKAVGKVNPLSLNGEAHLGMGFRVPN ANVSVDLTCRLEKPAKYDDIKVVK QASEGPLKGILGYTEHQVSSDFNSDTH SSTFDAGAGIALNDHF/VSRLISWYDNEF GY\SNR/VVDLMAHMASKE
7773	15824	A	8399	1	374	
7774	15825	A	84	247	287	KRGFVLPPGLECGPIWVNGR/LRLGLP PFSGLSFPGSWDYGGLPPGRVKIWHFLE KRGFRGVARVGSTLLTGEPVVLGF*KPPF F
7775	15826	A	840	1789	2411	KTYWRKKVEKVVSNNRLVTSPC/CIVTS TYGWTANMGENH*KLQALKETTSTMG/ YYMASQRKHRGIKPLTSLIEYLKAKRPE GLIRTDKSVKDLVILLYETALLSSGFQS WKIPRHHA*QVSYRMIKLAGLIDEDGPY LLDDTSAAVNLKELPPLEGDDDTFTHG KEVGLILLGLRGWTLPSVLYNSSDNIFF QGCFLFLVNI
7776	15827	A	8400	127	420	
7777	15828	A	8401	3	509	KNRIKKISNLENLKS L DVL DLHGNQITKI ENINHLCELRVLNLARNFLSHVDNLNGL DSLTELNLRHNQITFVRD V DNL PCLQHL FLSFNNISSFDSVSLADSSSLSDITFDGN PIAQESWYKHTVLQNMMLQRH*DMEGE FTGRRKGVWHLF*PKKGGKRKEPGKS
7778	15829	A	8402	2	384	
7779	15830	A	8403	1	430	ERVGNVCSLEISNIQKGE GGEYMCHAVN IIGEAKSFANVDIMPQEERVVALLPPEFC RSKYGFKGGRRQRTKN*FRUFEMPPRFI MPICDFKIPENS DAVFKCSVIGIPTPEVK WYKEYMCIEPDNIKYVISEEKGSHTLIIR
7780	15831	A	8404	1	12064	
7781	15832	A	8405	2	383	
7782	15833	A	8406	1	1677	

7783	15834	A	8407	2	2580	GQKKLVLI LNKSDLPKENLESWLNLYLK KELPTVVFRAS TKPKDKGKITKRVKAKK NAAPFRSEVCFGKEGLWKLLGGFQETCS KAIRVGVIGFPNVGKSSIINSLKQEQMC NVGVIIHGG LQGS MQVVPLDKQITIID\SP SFIVSPLNSSSALALRSPASNEVVKPM EA ASAILFQAD\VRQVVLKYTVPG LQGILW EFFT\MLAQRKEVWHQGGUPKCLEGA AKLLWSEWTGASLAYYCHPPTSWTPPP YFNESIVVDMKSGFNLEELEKNNAQSIR GENCVSLLSSSADRPVELLPVYMGLLSFP AIKGPHLANSILFQSSGLTNGIIEEKDIHE ELPKRKERKQEEREDDKDSHETVDEEV DKKLD SMGSKRRRATSPSSSVSGDFDDG HHSVSTPGPSRKRRRLSNLPTVDPIAVCH ELYNTIRDYKDEQGRLLCELFIRAPKRRT DSEIYEDAVELQOFFIKIRDELCKNGEILL SPALSYTTKHLHNDVEKERKEKLPKEIEE DKLKREEEKRVEGIIQRLHYCTNPDSKPK YPAQRT PQIHLQGEVLFYESKFRTLEEVT VVLDT HII SINQPDYEVVSQPIDLMKIQ QK LKME EYDDVNLLTADFQLLFNNAKS YYKPDSP EYKAACKLWDLYLRTRNEFV QKGEADDEDDDEDGDNDQGT VTEGLLK ISITQKIRPVVILFHYGESWNLLRADQRLI FAKSWPRASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTFSPVPTP HTFRHSYAMHMLYAGIPLKVLQSLMGH KSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
7784	15835	A	8408	2	259	
7785	15836	A	8409	1	257	
7786	15837	A	841	225	336	
7787	15838	A	8410	3	365	
7788	15839	A	8411	2	243	
7789	15840	A	8412	2	339	
7790	15841	A	8413	2	182	
7791	15842	A	8414	2	381	
7792	15843	A	8415	59	572	SGRPFFFFFSATGACLFPPGPGR LGAEY RQRHWGTWVWHGLELGR LGSNREGCA RACRDW SHPPRTERGPSGHGGITSARLG TGTGERLRSGCVQGLVGMGRPVDRA C* SVLEPGGTPGRANWALDVEKLG NKY*E NKSLWVSRP/RQRCDRCQDRPWERPRLQ VTPIARQ
7793	15844	A	8416	3	1735	
7794	15845	A	8417	2	441	
7795	15846	A	8418	412	569	
7796	15847	A	8419	2	2812	RGLAVFISDIRNCKSKEAEIKRINKELANI RSKFKGDKALDGYSKKKYVCKLLFIFLL GHDIDFGHMEAVNLLSSNRYTEKQIGYL FISVLVNSNSELIRLNNNAIKNDLASRNPT FMGLALHCIA SVGSREMAEAFAGEIPKV LVAGDTMDSVKQSAALCLRLRYRTSPD LVPMGDWTSRVVHLLNDQHLGVVTAA TSLITTLAQKNPEEFKTSVSLAVSRLSRIV TSASTDLQDYTYFVPAPWLSVKLLRLL
7797	15848	A	842	610	834	
7798	15849	A	8420	2	397	
7799	15850	A	8421	3	438	
7800	15851	A	8422	3	354	
7801	15852	A	8423	3	339	
7802	15853	A	8424	1	338	
7803	15854	A	8425	1	70	
7804	15855	A	8426	62	374	



7805	15856	A	8427	2	374	
7806	15857	A	8429	1	342	
7807	15858	A	843	36	351	
7808	15859	B	8430	212	587	MGKGSFKYAWVLDKLIKADRERGITIDIS LGKFETSKYYVTIIDAPGHRDFIKNMITG TSQADCAVLIVAAGVGEFEAGISKNGQT REHALLAYTLGVKQLIGGVTKMDSTEPP FRRKRYEEIVKGX*
7809	15860	A	8431	1	1386	
7810	15861	A	8432	66	1574	KLTPKPKWESVKTHINLAVIGHVDSG KS\TTTGHLIYKCGGIDTKNHLKNLTKEA AEMGKGSFKYAWVLDKLIKAEERERGITI DISLWKFETSKYYVTIIDAPGHRDFIKN MITGTSQA*PGLGGPLFGG/CSPLIVAAG VGEFEAGISKNGQ\TREHALLAYTLGVK QLIVGC*QKWDSTEPTTAQKILKEIV K/EKVSTFH*RKFGYNPDTVAFVFNFLV WNGDNMLGAQVPNMPWFQGDGKVTR KD\GNASGTTLLWRALDCILP\TRPTDQ APLR\LPFQ\DVLPKIGGYLGTWFLVWPE WETGVL/RNPGMGVTF\APVNVTTVEVKS VEMHHEALSEALPGDNVGFNVKNVSV KDVRRGNVAGDSKNDPPMEAAGFTAQ VIILNHPGQISAGYAPVLDCHTAHIACKF AELKEKIDRRSGKKLEDGPKFLKSGDAA IVDMVPGKPMCVESFSDYPPLGRFAVRD MRQTVAVGVKAVDKKAAGAGKVTKS AQKAQKAK
7811	15862	A	8433	2	265	
7812	15863	A	8434	3	318	
7813	15864	A	8435	2	896	VGPRGMWRAGSMSAELGVGCALRAVN ERVQQA\ARRP/RGDLPAIQPRLVA\ASK TKPADMVIEAYGHGQRTFGENYVQELA LEKASNPKILSLCPEIKWHF\GHLQKQN VNKLMAVPNLFML\ETVDSVKL\ADKV NSSWQ\RK\GSPERLKVMGPGFNTSREEI YLF\SVSLLEGKHG\LPSETIAIVEHINAK CPN\LEFVGL\MTLG\SFGHDL\SQGPND FQLLSLPEETVVKS*RIPADQVELSMGL SADMQHAVEVRSTDVWIRSTV\FGEPDY SKKPTPDKCAADV\KAPLEVAQEH
7814	15865	A	8436	202	349	
7815	15866	A	8437	1	129	
7816	15867	A	8438	3	387	
7817	15868	A	8439	505	693	
7818	15869	A	844	3	259	
7819	15870	A	8440	46	3454	AGESIMDTDL\YDEF\GNYIGPELDSDEDD DELGRETKDLDEMDDDDDDDDVGDHD DDHPGMEVVLHEDKKYYPTAEVYGPE VETIVQEEDTQPLTEPIIKPVKTKKFTLME QTLPVTVYEMDFLADLMDNSELIRNVTL CGHLHHGKTCFVDCLIEQTHPEIRKRYD QDLCYTDILFTEQERG\GVGKSTPVTVVLP DTKGKSYLFNIMDTPGHVNF\SD\VTAGL RISDG\VVLFIDAAEGV\MLNTERLIKHAV QER
7820	15871	A	8441	2	639	
7821	15872	A	8442	60	345	
7822	15873	B	8443	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVIILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*

7823	15874	A	8444	33	99	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTR EHALLAYTLGVKQLIVGVNKM DSTEPY SQKRYEEIVKEVSTYIKKIGYNPDVAFV PISGWNGDNMLELCSNMPWFKGMKIV TRKDGNASGTTLEALDCILPPTRPTDK PLRLPLQDVYKIGGIGTVPVGRVETGVL KPGMVVTFAPVNVTEVKSVEMHHEA LSLEALPGDNVGFNVKKCVVSRMFRGN VAGDSKNDPPMEAAGFTAQVILNHPIS QKNARHMPLELDCHTAHIACKFA*A*RK RFDRRSGKKLAEDGP*NSLKS*CWPLV DMVPWASPMCV*EASQDYPPLGRFWPF RYMRQTALRLGVNQQLDKKAAGVAG KVHQS LAQA*KPKWERKRLISTLSSLD T
7824	15875	A	8445	2	442	
7825	15876	A	8446	76	413	
7826	15877	A	8447	524	954	
7827	15878	A	8448	3	206	
7828	15879	A	8449	3	206	
7829	15880	A	845	3	661	
7830	15881	A	8450	3	327	
7831	15882	A	8451	56	324	
7832	15883	A	8452	33	159	
7833	15884	A	8453	2	494	
7834	15885	A	8454	130	716	LFARLPEAIPWRQKKESSAQIRLEPPSRA QGETGFSWLGPDTTHSRFWWWLGL/CG EGWAGIPLCFFSPRKYNTPIRDFLGPPL TGQGNKKTNRSSQTLPIEKPLSL*KL PSLRERE*LFIGLGVRA SPGSLISGLGA QACPQ/GLPCLCLYPCLRGPGQDFPNQPR POHPPSPQKPPSSFPHGSYVESLF
7835	15886	A	8455	1	578	GGRSVLPVDPRVRSHFPMTHGNTGLSAG LDASAQTTSHELTIPNDLIGCIHQGAKI NEIRQMSG AQIKIANPVEGSTDRQVTITG SAASISLAQYLINVSLENAPSSQAASVTI PDHLSINLSQPSTPSSFSSTTTPLATAG TSDAPSSLNPNSSDRPLCLQSAWHETHPF PGSPPPRLLLPATPPL
7836	15887	A	8456	2	875	IITLAGPTNAIFKAFAMIIDKLEEDISSSM TNSTAASRPPVTLRVVPASQCGSLIGK GGCKIKEYTREYRGFRSKVAGDMLPNLT ERAVTIAGIPQSIIECVKQICVVMLETLSQ SPPKGV TIPYRKPSSSPVILQGGQPYTI QGQYAIQPDLT KLHQLAMQQSHFPM T HGNTGIQWHLNPASPRGSKAYWAGLAD ASAQTTSSWNSPFPNGFDWAGIIGAFKG AKINEIRQMSG AQIKIANPVEGSTDRQ VTUTGSAASISPGVNIINVRLSSEVTGGM GSS
7837	15888	A	8457	3	376	HSSGLGGGGVMLVHDIRRNESHLDIFRE SAPGALREETLQRSWETKPGLLVGVPG MVKGLHEAHQLYGRLPWSQVLAFAAA VAQDGFNVTHDLARALAEQLPPNM SER FRETFLPFGRRPPLPGS
7838	15889	A	8458	1	1965	
7839	15890	A	8459	4	267	
7840	15891	A	846	33	382	
7841	15892	A	8460	10	464	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVVRDPYRFFKRTLFIA AEGITGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCPVISKKVISSANRAVVGVA CGGRISKRLK

						GGGRIDKPILKA
7842	15893	A	8461	5	807	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVVFRDPYRFFKRTELFIA AEGIHTGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCCLGGEAWKTRGKLARASGN YATVISHNPETKKTRVKLPSGSWKKVISS ANRAVVGWVAGGWPELTNP SLKAGRA YHKYKAK/RQRNCWPRIRGIVAMNPVE HTFGGGQ/HPQHASPPTIRRDAP/AGRKV GLIAARRTGRLRGTKTVQEKEN
7843	15894	A	8462	11	349	
7844	15895	A	8463	305	676	RSKSDSAADLPSRRARLSGTGEKASENK GDPVHL*ADGGFVPLEDSL CM*FPAWAS SPSAALSIGLTVQVAGLQGLPWAPWVVP LGSTGRRSSGELEESEAGYLSTSSTDGLL GSFKEGCSSC
7845	15896	A	8464	352	784	
7846	15897	A	8465	3	381	
7847	15898	A	8466	1	233	
7848	15899	A	8467	3	356	
7849	15900	A	8468	2	374	
7850	15901	A	8469	2	482	KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCCKHPEAKRMPCAEDYLSVV LNQLCVLHEKTPVSDRVTKCCTESLVNR RPCFSALEVDETYVPKEFNAETFTFHVK HKPKATKEQLKAVMDDFAAFVEKCKKA DDKETCFAEEGKKLVAASQAAL
7851	15902	A	847	21	371	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFFDSFGNLS SASAIMGNPKVKA/HPENFKLLGNVLVT VLAHFGKEFTPEVQASWQKMVTGVAS ALSSRYH
7852	15903	A	8470	2	435	
7853	15904	B	8471	73	384	MFLYEYARRHPDYSVVLLRLAKTYETT LEKCCAAADPHECYAKVFDEFKLLVEEP QNLIKQAWRVQIPECAISSLHQESTPSVN SNSCRGLKKPRKSGQOML*
7854	15905	C	8472	11	475	
7855	15906	A	8473	1	608	
7856	15907	A	8474	1	593	AKYICENQDSISSKLKECCEKPLEKSHC IAEVENDEMPADLPSLAADFVESKDVCCK NYAEAKDVFLGMFLYEYARRHPDYSVV LLLRLAKTYETTLEKCCAAADPHECYAK VFDEFKPLVEEPQNLIKQNCLEFEQLGEY KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCCKHPEAKRMPCAEDYLSRG PRTSRMFAKTMLRQRMSSWAC/CLYEY ARRHPDYSVVLLRLAKTYETTLEKCCA AADPHECYAKVFDEFKPLVEEPQNLIKQ NCELFEQLGEYKFQNALLVRYTKKVPQ VSTPTLVEVSRNLGKVGSKCCKHPEAKR MPCAEDYLSRG

7857	15908	A	8475	1	1428	MKWVTFISLLFLFSSAYS SRGVFRDRAHK SEVAHRFKDLGEENFKALVLI AFAQYLQ QCPFEDHV KLVNEVTEFAKTCVADES AE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPERNECF LQHKDDNPNL PRL VRPEVDVMCTAFHDNEETFLKKYLYEIA RRHPYFYAPELLFAKRYKAAFT ECCQA ADKAACLLPKLDEL RDEGKASSAKQRL KCASLQKFGERAFKAWAVARLSQRFPK AEFAEVSKLVTDLT KVHTECCHGDLLEC ADDRADLAKYICENQDSISSKLKECCEK P LLEKSHCIAE/HRNLGKVGSKCKHPEA KRMPCAEDYLSVVLNQLCVLHEKTPVS DRVT KCCTESLVNRRPCFSALEVD ETVV PKEFNAETFTFHADICTLSEKERQIKKQT ALVELVKHKPKATKEQLKAVMDDFAAF VEKCKADDKETCF AEEGKKLVAASQA ALGL
7858	15909	A	8476	1	748	
7859	15910	A	8477	1	1515	
7860	15911	A	8478	1	2931	MKWVTFISLLFLFSSAYS SRGVFRRTPLGP ASSLPQSFL LKCLEQVRKI QGDGAALQE KLCATYKLCHPEELVLLGHSLGIPWAPL SSCPSQALQLAGCLSQLHSGFLYQGLL QALEGISPELGPTLDTLQLDVADFATTIW QQMEELGMAPALQPTQGAMP AFASAFQ RRAGGVLVASHLQSFLEVSYRVL RHLA QPGGGGDAHKSEVAHRFKDLGEENFKA LVLI AFAQYLQCPFEDHV KLVNEVTEF AKTC
7861	15912	B	8479	1	6124	MKWVTFISLLFLFSSAYS SRGVFRDRAHK SEVAHRFKDLGEENFKALVLI AFAQYLQ QCPFEDHV KLVNEVTEFAKTCVADES AE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPGRNECF LQHKDDNPNL PR LV RPEVDVMCTAFHDNEETFLKKYLYEIA ARRHPYFYAPELLFAKRYKAAFT ECCQ AADKAACLLPKLDEL RDEGKASSAKQR LKCASLQKFGERAFKAWAVARLSQRFP KAEFAEV
7862	15913	A	848	24	474	
7863	15914	A	8480	241	348	
7864	15915	A	8481	2	191	
7865	15916	A	8482	3	370	
7866	15917	A	8483	1	351	
7867	15918	A	8484	44	454	
7868	15919	A	8485	200	408	
7869	15920	A	8486	1	110	
7870	15921	A	8487	48	462	
7871	15922	A	8488	1	721	MHWGVGFASSRPCVVDLSWNQSISFFG WWAGSEEPFSFYGDIIAFPLQDYGGIMA GLGSDPWWKKTL YLTGGALLAAAYLL HELLVIRKQOEIDSKDAI LHQFARPNNG VPSLSPFCLKMETYL RMADLPYQNYFGG KLSAQGKMPWIEYNHEKVSGTEFIIDFLE EKLGVNLNKNLGPHERAISRAVTKMVEE HFYALS WRWYHPVPTCPLQKFLQFVRQ LMLFMRTSPSALPGH
7872	15923	A	8489	3	785	
7873	15924	A	849	24	415	
7874	15925	A	8490	5	302	
7875	15926	A	8491	1	2086	
7876	15927	A	8492	3	2011	
7877	15928	A	8493	305	505	

7878	15929	A	8494	3	1588	EEEDYDVYKSEFPTEADLEDFTEAAVDE DDEDEEEGEEVVEDRDYDDYDFKGGDY NEENPTEPGSDGTMSDKEITHDVKAVCS QEAMTGPCRAVMPRWYFDLSKGKCVRF IYGGCGGNRNNFESEDYCMVCKAMIP PTPLPTNDVDVYFETSADDNEHARFQKA KEQLEIRHRNRMDRVKKEWEEAELQAK NLPKAERQTLIQHFQAMVKALEKEAASE KQQLVETHLARVEAMLNDRRRMALEN YLAALQSDPPRPHRILQALRRYVRAENK DRLHTIRHYQHVLAVDPEKAAQMKISQ VMTHLHVIEERRNQSLSLYKVPYVAIQ EIQEEIDELLQEQRADMDQFTASISETPV DVRVSSDESEEIPFHPFHPFPALPENEG SGVGEQDGGGIGAEKVINSKNKVDEK HGPLNETLDVKEMIFNAERVGGLEEEERE SVGPLREDFSLASSALIGLLVIAVAIATV IVISLVMRLKRQYGTSHGIVE/VVDPML TPEERHLNKMQRNHYENPTYKYLEQMQ I
7879	15930	B	8495	73	1845	MAATGTAAAAATGRLLLLLVGLTAPA LALAGYIEALAANAGTGFAVAEPQIAMF CGKLNMHVNIQTGKWEPTGTGKSCFET KEEVLYQCQEMYPELQITNVMEANQRV SIDNWCRDCKQCKSRFVTPFKCLVGEF VSDVLLVPEKQCFHFKERMEVCENHQH WHTVVKEACLTQGMTLYSYGMLLPCG VDQFHGTEYVCCPQTKIGSVSKEEEEED EEEEEEDEEEDYDVYKSEFPTEADLEDF TEAAVDEDEDEDEEEGEEVVEDRDYDDY TFKGGDYNEENPTEPGSDGTMSDKEITH DVKAVCSQEAMTGPCRAVMPRWYFDL SKGKCVRFIYGGCGGNRNNFESEDYCM AVCKAMIPPTPLPTNDVDVYFETSADDN EHARFQKAKEQLEIRHRNRMDRVKKEW EEAELQAKNLPKAERQTLIQHFQAMVK ALEKEAASEKQQLVETHLARVEAMLND RRRMALENYLAALQSDPPRPHRILQALR RYVRAENKDRLHTIRHYQHVLAVDPEK AAQMKSQVMTHLHVIEERRNQILSLYK VPYVAQEIQEEIDELLQEQRADMDQFTA SISEHPCGRPGEL*
7880	15931	B	8496	55	274	MADANKAEVPGATGGDSPHLQPAEPPG EPRREHPAEAEKQQPQHSSSSNGVKME NDESAKEEKSDLKEKSTGX*
7881	15932	A	8497	3	754	FLFFEPHPAEARKQQPQHSSSSNGVKME NDESAKEEKSDLKEKSTGSKKANRFHPY SKDKNSGTGEKKGNRNRVFISNIPYDM KWQAIKDLMREKVGCVTYVELFKDAEG KSRGCGVVEFKDEEFVKKALETMNKYD LSGRRVNIKEDPDGENARRALQRTGTSTF QGSHASDVGSLVNLPPSILNPNIPPEVI SNLQAGRLGSTIFVANLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDQSRGMGT
7882	15933	A	8498	2	346	
7883	15934	A	8499	1	414	AWHEETHKVDLGLPEKKKNKKVVKEPE TRYSVLNDDYFADVSPLRATSPSKSVA HGQAPEMPLVKKKKKKKKVSAALGKE VKRSQSKLRLRNTSP*VMTLRPPQKR*S PKRR*SSQSSRSQL*KGRKRRRGKRGG
7884	15935	A	85	2	526	RGGCDRDGPFSSASSPLAMASLTVKAYLL GKEDAVAREIRRFSLCCSTEPEAQAEVAA GPGPCERLLIRVAALFPAVRPGGFQAHY RDEDGDLVAFSSDEELTMAMSYVKDDIF RIYIKETNECLADHRPPDAHERA/PRNM VHLNEICDG*NGPVAGTLYMCSFCPYYY LCTPFNV

7885	15936	A	850	24	432	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLLDLKGT AQLSELHCDKLHVDPENFKLLGNVHFG KEFTPEVQASWQKMTVGVASALSSRYH
7886	15937	A	8500	1	1977	MEVDFKIRKVGQWTITLQEHVSVLLFIE ETHPENKPTSTAVEESHISRDTVMVNFQ COLDWSKGYLEAYLTKINSICSHRFLD GSVTCHDETGSSRDARDTVGTGVRVND ESVEQLGLRRTMWLGICRGAAAMAVST VTAFAGRPRGRSRNPRGWAGDSKWTS GSRRSWLSRGGGEISPTGMITKTHFVYL GLPEKKKKKRVVKEPETRYSVLNDDY FADVSPLRATSPS*DV AHGQAPEMPLVK KKKKKKKGVSTLCEEHVEPTTLPARRT EKSPSLRKQVFGHLEFLARGKRKNKKSPL AMSHASGVKTSQDPRQGEETR VGKK\ SKKHKKEKKGPGPHSLPVQDPWFCEA REARDVGDTCVSGKKDEEQAALGQKRK RKSPREHNGKVKKKKKIHQEGDALPGH SKPSRSMESSPRKSGSKKPKVKEAPEYIP ISDDPKASAKKMKSKKKEQPVIEPA LKRKKKKKRKESGVAGDPWKEVVPSE MDFAVGELRETDTDLEVVLKKNMDE AHIDQVRRKALQEEIDRESGKTEASETR KWTGTQFGQWDTAGFENEDQKLKFLRL MGGFKNLSPSFSRPASTIARPNMALGKK AADSLQQNLQRDYDRAMS WKYSRGAG LGFSTAPNKIFYIDRNASKSVKLED
7887	15938	A	8501	2	376	TAGFLLPQGLPCKYHLMYGSMLMPNVW RRTTTREP KPLGDAEPNTRSLMWEVKRS SSGPWVFKSNIACHIPFIRITSTSSAYD/W PFTHSF**FSGIIPCPHGCHQPFSDMVT FPLCQLPAHLH
7888	15939	A	8502	2	956	
7889	15940	A	851	323	737	
7890	15941	A	852	24	589	
7891	15942	A	853	100	684	
7892	15943	A	854	135	851	APSPDAMGHFTEEDKATITSLWCKVNV EDAGGETLGRLLVVYPWTQRFDFSFGNL SSASAIMGNPKVKAYGKKVLTSLGDAI KHLDDLKGTFAQA*SELHCDKLHVD ENFKLLGKCAGDPFLAIPFSAKEFTPGG CRLPGQKD*LGVGQCPGPPDTTEAQLP MNAELFKDMALFLQAITNNKSISAKRSN FKLLGNVLTVLAIHFGKEFTPEVQASW QKMTVGVASALSSRYH
7893	15944	A	855	40	505	QPQTVSILHLTPEEKSAVTALWGKVNLD EVDVEALGRLLVVYPWTQRLLESFGNL STPDVAVMGNPKVKAHGKKVLGAFSDG LAHLNLLKGTATLSELHCDKLHVDPEN FRLLGQRAWV/LAGPITFGKEFTPPVAG LPIRKL VAGVANALAHK
7894	15945	A	856	41	536	APSPRRPWGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFDFS GNLSSASAIMGNPKVKAHGKKVLTSL GDA\TKHLDDLKGTFAQA*SELHCDKL HVDPENFKLLGNVLTVLAIIPFSAKEF TPEGCRASWAERWVTWSWPVPCSSRYH
7895	15946	A	857	241	435	
7896	15947	A	858	243	449	
7897	15948	C	859	275	397	MLCWLKLG VHHYSGNNIELGTAMRENT YRVLHTGLFIDPG*
7898	15949	A	86	285	326	NLPKILGHTQKRLQSTRSWKRMMLSLN LQHIYNPVPFVGTIPDHLDFVS*IVIRGP VSSDANYIQYDL*NPNSLSV
7899	15950	A	860	2	424	

7900	15951	A	861	73	608	SVMTVPAPTLKAASKSDSSGPHRLREN PWCLSPADKTNVKAAWGKVGHAHAGEY GAEAL\ERMFLSFPTTKTYFPHFDSLHGS AQV*GATGK\KVADAL\TNAVA\HVGRT LPNALSGPEATLHAHK\LRGGPGSTFKLL \SHLPCLGEPWAAHLPGRVSPGLGGCKAS LGTNFLGFLKQPC
7901	15952	A	862	7	330	
7902	15953	A	863	2	379	
7903	15954	A	864	3	722	HERGSVSCFNSGWTDIRGHLFQPPTAL RFPLRLQPPGPSSRPSPASGTCQHQLWL APSCQPTMSSQIRQNYSTDVEAAVNSLV NLYLQASYTYLSLGFYFDRDDVALEGVS HFFRELAEEVKREGERLL\RMQTQRGGR ALFQDIKKPAEDEWGKTPDAMKAAMAL EKKLNQALLDLHALGSARTDPHLCDFLE THFLDEEVKLIKMGDHLTNLHRLGGPE AGLGEYLFERLTLKHD
7904	15955	A	865	40	264	
7905	15956	A	866	3	1231	
7906	15957	A	867	3	496	
7907	15958	A	868	1121	1442	
7908	15959	A	869	2380	2714	EETEGQARWLTPIPTLWEAEAGGSPEV GSSRPA*PPLSAFLYPAFFLRSARFL
7909	15960	A	87	133	392	LITYYIPENCQPGQHSETSSL/LKKIKKLA GCGGTHL*SQLLGRLRREDYLSPPGGQICS EP*SYHCTPAWVTGQDPASKKKKKKKK R
7910	15961	A	870	3260	3533	
7911	15962	A	871	6330	6802	RSKGRAKIKSRRAGQVQWLMFPVIALW EAKAGGSPEARSL*PAWPIW*NPALHSSL /V**SKALSQKQKKQKKNHGDGQHDETV SLLKIQKSAG AHL*SQLLREAEAGELLEP RRQTLQ*AEILPLHSGLGDKSKTPSQKKK KKRSQGVGVREPQGP
7912	15963	A	872	1	500	
7913	15964	A	873	63	375	
7914	15965	A	874	27	374	
7915	15966	A	875	1	801	
7916	15967	A	876	1286	1388	
7917	15968	A	877	1	1056	
7918	15969	A	878	651	1467	
7919	15970	A	879	3	414	
7920	15971	A	88	2	359	EVLRMAGTGLVAVEVVVDALPDFEEGY EGPGGREAAAALVEDETRRYRPTMNYL SYLTSPDYSAFETDILNNDSERLAARQP I*LLTMKLYLSSPSCGHYFVLLHVYNC LSLYFPSP
7921	15972	A	880	164	412	
7922	15973	A	881	29	489	
7923	15974	A	882	44	847	IKENSWIRASTITYLKGETIGTEPEGK EGECASGLV\NPRFDFPSKIVSFPKIPV*T SLHITPLAIVCPFQNIWSLHGKGQRGK QNINKRETKNKNTTLFREPKQNPQIPFF* TTQGHAEVKSLSSTSVPL*ITGRKA\STQSL* QEFSTLEASEHAEDG/ALLRVPLPSWRA PSGVGTVKSRFSH/VPRDHQPTTHWWP WWSMAGRQRPSTLSHFLSWMTSCLGP SHFRRELAFWKPTFPIHHRTRQSAHILVP LVFKGHFQOTL
7924	15975	A	883	40	431	
7925	15976	A	884	122	341	
7926	15977	A	885	23	419	

7927	15978	A	886	1	598	LARNPGSTHASGGILLGRQCWVLFTMAP KKAKKRAGGANNSNVFSMFEQTQIQEFK EAFITMDQNRDGFIDKNDLRDTFACPW RKLNVKNEEIDEMINKEAPGINFTVFLT MFWGRNLKGADPEGKPFNLNRISKVFDPE GKGVAEGLDYVREMLNAGRRGFPRKE VDQMFAAFPPDVTGNLDYKNLVHIITH GEEKD
7928	15979	A	887	174	452	
7929	15980	C	888	60	245	
7930	15981	A	889	1878	2295	SFSPA WPSRW CASSSWCTDCLVPSTCAA LQHPVVFLDKGNHFLIFFYFFFFVILYTSS SHEVED*PCVMFSKIKWYLLE/VRILVV AYRLSFCKERKKTIKLCQIILLCLAARTW LPCLSLSLPPFLSFLCMDFFFEKK
7931	15982	A	89	69	342	VGNMSGTNLDGNDEFDEQLRMLELYGD GKDGDTLTDAGGEPDSLGGQYRSTDTPT WDLDI*AWFFMISEYFLFTYL VQFMAFL LYCGFMFL
7932	15983	A	890	3218	3469	
7933	15984	A	891	618	1236	
7934	15985	A	892	12	138	
7935	15986	A	893	1	1002	
7936	15987	A	894	66	293	RLLFRFFCPTGCSLDVVL SLS*GCGFL*S LHTGFMPSPFWPGDSLVSQIVTNFSWR FSSAVAFSSASGSFPQGS
7937	15988	A	895	2202	2335	
7938	15989	A	896	343	906	
7939	15990	A	897	1455	1604	
7940	15991	A	898	370	807	
7941	15992	A	899	1	1548	
7942	15993	A	9	1130	1377	ASHLRSGVRDQPEQHGETPTLALKIQKSP GCGGRHL*SQLPGRRLRQENHLNLGGGG CGELRSHHCIPAWVTETLT KKKKKKRR
7943	15994	A	90	144	2205	DRRERCHPFKRALMP/LRPAEPRPAFPIH HPLL PQDANEA/PG/CWAEAVQGCP/AE DPPCVSRAAPGGSVPPFC/PGRLL*GWGG PRGKGDPGLADSGPPCELRFEEESRPPR VVGESPAEKLAYPPAGPLCFF*PFSEF/PE L*TKSPS*EMTNHMLHSGGGGSWPGSPT SPGPPPGGSLPRAAALPPKTPGQTRAPAG AGCPHADLAMPSPGTPGSPPVAPTSVA DCSSQNV*HPRVPEPTQAATPVQFPKNVI TSPGCQSPPKQP/APVPVPRMYN/MPRVT EPAQAATPESLGHVPELRSTQTVATASP GHLTPMKGTLGSAREIPEVGTGPPWCPV PPPSPPLPCAPRGSAGGLTLPLRASQTS GSTFL LISFPFCKLTSPFPGLGVQGT PAGG RSVCTVVQGVV SERGGTSVGQLLHLPVP LCPPLSKQVMAPIAGL/PIQCSGPPVQW GDPRPTP*CIQPGQVYCCD/VLPALLCR FPGAAQPRTPHEWACPALAECLPCALRQ VPRAGQPG*TMCGAGTGPGCWKGGQK EAGGRCEKLPPLNTTALPAPAGPCS QL PLSHGWPLAPPSPH*DSRQGGPD/ASPS QPWLRKPPNPTMGLRKPRK*LLPASPKR LRKPKAASLPVRHPKASLGCS*EGLIWA LP*GWPCRWGPLGALGGTWQPPRHPGP VLISRA*GLQPQLTK
7944	15995	A	900	3	127	VLCQFSKGMLPVFAQSV*YWLWVRYVP SIPSLLRVFSMKGC



7945	15996	B	901	1	1926	MFSDSLTPMHKERVITLLKREGHVVGFM GDGINDAPALRAADIGISVDGAVDIARE AADIILLEKSLMVLEEGVIEGRRTFANML KYIKMTASSNFGNVFSLVASAFLPFLP MLPLHLLIQNLLYDVSQVAIPFDNVDD QIQKPQRWNPADLGRFMIFFGPISSIFDIL TFCLMWWVFHANTPETQTLFQSGWFVV GLLSQTLIVHMIRTRRVPFIQSCASWPLM IMTVIVMIVGIALPFSPLASYLQALPLS YFPWLVAIAGLATNSDRFDNLHVFRQ TGNFNARTCREGGVVFGEFGFASGFDDR FYVIQRLTCLCSDVCRYFARFRIYRDLTG GDDHIAQINXLYVRPIAAGPAPGTFRWL HSRRAMLLTRADMEDRERFLNARDTLR ALLDNNIVPVINENDAVATAEIKVGDND NLSALAAIAGADKLLLLTDQKGLYTAD PRSNPQAEIKDVYGIDDALRAIAGDSVS GLGTGGMSTKLQAADVACRAGIDTHIAA GSKPGVIGDVMEGISVGTLFHAQATPLE NRKRWIFGAPPAGEITVDEGATAAILERG SSLLPKGIKSVTGNFSRGEVIRICNLEGRD IAHGVSRYNSDALRRIAGHHSQEIDAILG YEYGPVAVTVMHDYR*
7946	15997	A	902	1	1602	
7947	15998	A	903	1	972	
7948	15999	A	904	280	358	
7949	16000	A	905	141	152	QCPPQPRPPGRCPTPQSGHTGCSTGG*GL NPLYYNLCDRSGAWGIVLEAVAGAGIVT TFVLTHILVASLPFVQDTKKRSLGTQLR GRCHHTAGTMGSC
7950	16001	A	906	177	247	
7951	16002	A	907	574	737	
7952	16003	A	908	221	576	GVGGDTHDTHPNTGREGGPPSRSGAHVA GPARGRRSLESPLPGARSSGSPNPASP SPPLTQSHT*GFPKRPESSCRLSRGVAAW WLWAEYIVFKPAGSSWHCPSPWLLAVA RGRMMS
7953	16004	A	909	1	157	TKTWTLKKHFVGYPTNSDFELKTAELPP LKN/GRVAAKRLKEGDTMMGQQVAK
7954	16005	A	91	122	874	SPLLGGLRQKIFFNWEGGSGIKPKLTPSP PARQGQGGPFSSSSPSSSPES*LFPALRT PSRQGGSAIPASGLSTPACVPSPGSTRNL FHAPHVGRVSLLLPAS*KAAGPSKKGPG QVNPA*FRKPGVGI*RSVGPRQLPLE*LH ARKNRAGPVPLPGLGKEGPSLQGPRTQ LASLLMEGPPTHPTIHDGTTAQPELWPC RGPQMOSWGSGLPHTFGPRQPHPPHPS RHRSDSESSLLQASAHGKA
7955	16006	A	910	3	484	VRLREDDRRGPSLGTCHKSDPGRPAAQS QPPSPGSGTFGLLSFRMVRTKTWTLKKH FVGYPNTSDFELKTAELPPLKNGEVLL ALFLTVDPYMRVVESKNVALPKGTIVLA SPGWTHSISDGKDLEKLLTEWPDTPLS LALATVGMPLATAYFGLLE
7956	16007	A	911	1	1147	MLLCQKAPSLKTTYNHPPAADSAGTAL NLETTVKQTRTQLEYNNVGTDLSPPEK SFNYPLLSSSGDQFEIQLNQQLWSLIPNN DVRRLVSHVIRTLKTDCTETHLQACAK LISRTGLLMKLLSEQQELRTVSMATAWKP RMNRKSRSRMRQSHFASHAGRWWHNNH STLQPPSPKLQMAELSEARRRSFRMVRT KTWTLKKHFVGYPTNSDFELKTAELPPL KNGGLEFLIAYGMLYFVEVLEALFLT DPYMRVAAKRLKEGDTMMGQQVAKV VESKNVALPKGTIVLASPGWTHSISDG KDLEKLLTEWPDTPLSLALGTVGMPLG TAYFGLLEICGVKGGETVMVNAAGAV GSVVGQIAKLKGCKVVGAVGSDEK

7957	16008	A	912	214	540	
7958	16009	A	913	495	684	
7959	16010	A	914	1	1911	
7960	16011	A	915	3	1381	KTPFVGYQHQRPKVDKTTKMGRNQSRK AENSKNQSTSSPPKDRSSLPATEQSWTE NDFDELTEVGFRRSAITNFSELKEHVLTR RKEAKNLEKRLDEWLTRINSVEKTLNDL MELKTMAQELRDARTSFNS*FNQVEKRI SVIEDQIDEIKQDDKAAETCNWRWVSES LRQLRASVDAFHARASHYNAGECLHQL AALNSRLNCAQEMARRDSIGEVPPVPW RTVVGSGIAGEAKLDHLRLVSLIGREVN KENSPAATRWLFSFQAGALAGGQIVLQA AKPNAHGQPVVATRNLNPAGIVAVLK QRPRLVAAAVQAFYLRDPIDLRACRVFK TFLPETRIMTSYYAIEWSLWTLVDVLHA ENSESAHMSHNSYDPPSDVARHLTHLPM SPIPDYIARFRYRHRSRVRLTARKLSPAF MRCSSAIQRYSTMLERGFNGGYCRSTTV RVVTEATRMLSF
7961	16012	A	916	1	1191	
7962	16013	A	917	1	227	
7963	16014	A	918	1	392	
7964	16015	A	919	157	388	
7965	16016	A	92	27	319	IINTSISLWFLGLSSIIHHYQERFL*FN*FG SYMVFIEIFFGISSAFFVC*WPK/Y/LLYFR YCRCFLILLLLSIFEF/DLCYLV*IFMFFL FFYMFLCV
7966	16017	A	920	451	593	
7967	16018	A	921	467	1038	
7968	16019	A	922	233	345	
7969	16020	A	923	1	1386	
7970	16021	A	924	1	1254	
7971	16022	A	925	36	695	
7972	16023	B	926	52	554	MGKEKTHINIVVIGHVDGSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTHIDAPGHRDFIKNMIILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*
7973	16024	A	927	63	1545	PLKAKMGKEKTHINIVVIGHVD/TKGST TTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYA*VLDKLKAERERGITIDISL WKFETSKYYYVD*SLIAPGHRDFYSKT* FTGTISRDLVWGAPFLGG/CLP*LFAAG VWWNLKAGISQEWGRTREHALLGLHTG VWKQTKLFGVNKNWIST*GHPTAQKKIL KEIVKGKSALT LRKIGYNPDTSSILCPISG WNGDNMLEPSA WMPWFQGDGK VTRK DGNASGTTLEALDCILPPTPTDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKGM VVTFGPVNVTTEVKSVMHHEALGEAL PGDNVGFNVKNVSVKDVRRGNVAGDS KNDPMEAAAGFPAQVIILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVIKA VDKKAAGAGKVTKSAQKAQKAK
7974	16025	A	928	2	246	
7975	16026	A	929	318	420	
7976	16027	A	93	264	664	IRLAFCGIFQAFSICNSNIWLLPEIPLLG IYP*E*NTKTCTQMFTAALFIIS*KVEISQ MPIINEKINKLWYIHMTCHTKNKVLRDT T*MNLENIKLNERNRGQTKKKKAIYCLSL FM*YVQNRQIHTDEK
7977	16028	A	930	205	400	

7978	16029	A	931	234	425	ICKWIILPCGLAGSYKIAKWVSGFTLLLT HMGAAWV*LSLFGYTILF*FPKMSSFL TMKKDIF
7979	16030	A	932	405	862	
7980	16031	A	933	2	412	
7981	16032	A	934	110	431	
7982	16033	B	935	754	1544	MREIVHIQAGQCGNQIGAKFWEPWKASS IELSQCRNSPSKVFRSKEHDGLPVTPTTR R*
7983	16034	A	936	1	451	
7984	16035	A	937	1	258	
7985	16036	A	938	3	1906	
7986	16037	A	939	1	585	ECLCVSTAVRIRHEKMTLTELRRGGSFE FKDMRVPSALVTLHMLLCSIPLSGRIDS DEQKIQNDIIDILLTFTQGVNEKLITSEET LANNTWSLMLKEVLSSILKVPEGFFSGLI LSELPLPLPMQTTQVSLPYNMHLINDC SNTF*KASDSVKKQKPSSPFLPKRHKITG *GGDKTETSWSLRKYGGKNFK
7987	16038	A	94	2	605	SHGTPGRPTRPVEFFSGGSAGSFSPWFPK KAKKRAGGADSNVFSMFEQITQMGEFK EAFSIMDQNRDGFIDKNDLRDTFAALGE VNVKNEEIDEMIKEA\PGPLNFTVFLTN VWGENLREADPEETILNAFKV\FDP*RP KGCMA\DYVSGKMLTHAGRRRFSKE\ EVDQMFAGLPPLT*LGNDYKNLVHIIT HGEEKD
7988	16039	A	940	625	2115	
7989	16040	A	941	180	359	GSLQDRWPTSSWRTGRQGSSLLRPRWI SFLAQLWRV*RIPAGTFVIRIEDGNRRRA FI
7990	16041	A	942	1286	2188	
7991	16042	A	943	1	2537	
7992	16043	A	944	2	437	
7993	16044	A	945	298	581	GARAEARAGSGQGAGLVSSPVRWRG WSDKGAERP GGPLSPLREVSRAGPSG/H AARGQQPGRPRFPFPPGPRPPRRCPCTRA RPGGAAGGGPCL
7994	16045	A	946	377	639	
7995	16046	A	947	1279	2253	
7996	16047	A	948	268	369	
7997	16048	A	949	15	440	
7998	16049	A	95	1	1254	
7999	16050	A	950	118	375	VAVVQIIFLPVFIAEKYKDLVPDNSKTAD NATKNAEPLINLDVNNPDFKAGVMALA NLLQIQRHDDYLVMK\AIRILVQERLTQ D
8000	16051	A	951	1	969	AATVLTITIGEAPSRSDSAPARPLAASPV PAPPAPPRFFSPGRPGDQSEKRWTFMR RKLT\SLDYHNPAGFNCKDETEFRNFIV WLEDQKIRHYKIEDRG\NLRNHSSDWPK VFEKYFKRC*TCPFKIQDRQESYLTGFFG LAVRLEYGDNAEKYKDLVPDNSKTA*Q LQKIAEPLINLDVNNPDFKAGVVGF* TWLQIQRH\DLPGQMLKANS GFVWQE RLDHQGCQFA*GQIKQKRGLPVALDKHI LGFDTGDAVLNEAAQILRLHIEELRELQ TKINEAIVAVQAIADPKTDHRLGKSLED EHLRTSASHLL
8001	16052	A	952	1258	1429	
8002	16053	A	953	189	403	

8003	16054	A	954	51	1702	GLPRCASVQPVCEYQRRWKRWLWDIT WEKWKQMDTVQKSIYRNILAEKYRNLVL LDGKLAAGAKTSRVEQQDISKED*SQRL EMEELAKRKSVP EEIWKSRGQFKNQQLN KENNLGQEIATCTKIPTKRKDIESNEF/RE KFYCKINTCC/MNR*ILWKRIVINMVHVE RCSNKTQI*LYKESMMEKKKPKCYSECG RTFRGHITLVQHQITHCGERPCKCTEGRK GFNQSSHLRNNQRKTLSGEKPYKCSECG KAFSYCLVLNQHQRIHSGEKP YEGTECG KTFIQS\SYLTQHQR/TSHTGEKPYTCLEC GRLFSQNTHTLTHQRIHTGEKPYECNEC GRSFSQTAHLTQHQRMYTGEKLYECNE CEKAFHDHSALIQHHIVHTAEKPYDINT GKTFSYCSDLIQHQRMTGEKPYKCNEC GNAFSDCSSLIQHQRTHTGEEPYECKQC GKAFSRSTYLTQHQRSHAGEKQYKCNE CEKTFSLSSFLTQHMRVQTGEKPYKYNE YGKAFSDCSGHFQRTHTGEKPC ECNDC GKPF SFC SALIQHKRIHTRKKP
8004	16055	A	955	2	270	REEKEWP PHTQPWYPEGCFKDQGHYEE GSVIKENCNS*WTAQNY SQFWGMTLED GFKFRLGTLPPSPMLLSMNEMTVSVPSD SRMCMYL
8005	16056	A	956	1	999	
8006	16057	A	957	1	1518	VHCSEFPGRPPRPRTRGRKVEAIPVFQR MWTGYKILIFS YLTTEIWMEKQYLSQRE VDLEAYFTRNHTFLQGT HFKRAIFQIGQ YCRNFGCCEDRDDGCVTEFYAANALCY CDKFC DRENSDCCPDYKSFCREEKEWPP HTQPWYPEGCFKDQGHYEEG SVIKENC NSCTCSGQQWKCSQH VCLVRPEALIEQV NKG DYGWTAQNY SQFWGMTLEDGFKF RLGTLPPSLMLLSMNEMTASLPATIDL EFFVASYKWP G WTHG PLDQKNCAASW AFSTASVAADRIA IQSKGRYTANLSPQNL ISCCA KNRHGCNSG SIDRAWWYLRKRK LVSHACYPLFKDQ NATNNGC AMASRSD GRGKRHATKPCPNNVEKSNRIYQCSPY RVSSNETEIMKEIMQNGPVQAIMQVHED FFHYKTGIYRHVTSTNKESEKYRKLQTH AVKLTGWGTLRGAQ GQKEKFWIAANS WGKSWGNGYFRILRGVNESDIEKLIIAA WGQLTSSDEP
8007	16058	A	958	316	411	
8008	16059	A	959	314	390	
8009	16060	B	96	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWK FETSKY YVTIIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIA CKFAELKEKIDRRSGK KLEDGP KFLKSGDAAIVDMVPGKPI*
8010	16061	A	960	112	1154	SCGLGHRKTFSFVSLPARNETQPKACRE QNMEGDFSVC RNC*RHVV SANFTLHEA YCLRFLVLCPECEEPVPKETMEEHCKLE HQQVAGCTMCQQIMHKSSLEFHKANECQ ERPVECKFCKLDMQLSKLELHESYCGSR TELCQCGGQFIMHRMLAQRRDVCRSEQ AQLGKGERISAPER EYCHYCNQMIPEN KYFHMHGKCCPDSEFKKHFPVGNPEILP SSLPSQAAENQTSTMEKDV RPKTR SINRF PLHSESSSKAPRSKNKTL DPLLMSEPKP RTSSPRGDKAAYDILRRCSQC GILLPLPIL NQHQEKCRWLASSKRKTSEKFQLDLEK ERY YKFKRFHF
8011	16062	A	961	103	538	
8012	16063	A	962	1	405	
8013	16064	C	963	334	471	

8014	16065	A	964	1	1137	
8015	16066	A	965	1	451	GDRPFRV*DPRAGQAATFWTDPSLS*SL LLGVMFPAAPSPRTPGTGPRRGPLAGLG PGSTPRTASRMGLPLGSAVSSPVLFSPPG RRSSLISRGTPTRMLPHHSITESVNYDAK TIGSSLPVKVMEALTLAEVDDQLTNINE GGWACL
8016	16067	A	966	301	1867	
8017	16068	A	967	57	383	GWLAHTANERPVRFCFWLEGFLENIRA PTLNF*QIQQLAIFVEPIKTILLPFCFFRIF STRVRICTYSSHSFPGGAGLLHFCSSSL VRFKISFGDTVAVAPVPDF
8018	16069	A	968	507	904	GKRAGECWRRSLRPRGRGETRAASPSS ARPSLALASAPRPSGPRPRQGPRRLW PRGLKGQVCARGPGRGGPGGVGGRRSA SARAPRVPGDQPPPPAPSS*ED/WT*EIG RLSSHAPLAVLHTRSALLNS
8019	16070	A	969	379	858	
8020	16071	A	97	1	1299	
8021	16072	A	970	259	483	
8022	16073	A	971	175	588	
8023	16074	A	972	1	383	
8024	16075	A	973	79	445	
8025	16076	A	974	1163	1401	
8026	16077	A	975	80	406	
8027	16078	C	976	70	240	MITGTSQADCAVLIVAAGVGEFXAGISK NGQTRDMRKXLRKSALTTLRKLATTPT Q*
8028	16079	B	977	68	490	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLA*
8029	16080	A	978	261	406	
8030	16081	A	979	1	678	
8031	16082	A	98	36	697	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTRE HALLAYTLGVKQLIVGVNKMMDSTGAIL TGDFPSLEPRHVSTWLQHVVTIPTRNWH KCYCVGVVANFLNVSADFLNNF
8032	16083	A	980	181	340	
8033	16084	A	981	1	375	

8034	16085	A	982	1	2583	MVNFTVDQIRAIMDKKANIRNMSVIAHV DHGKSTLTDSLVCAGIIASARAGETRFT DTRKDEQERCIPIKVNAISLFYELASEND LNFIQQSKDGAGFLINLIDSPGHVDFSSE VTAALRVTMGALVVVDCVSGVCVQTET VLRQAIAERIKPVLMMNKMDRALLELO LEPEELYQTFQRIVENVNVIISTYGEGESG PMGNIMIDPVLGTVGFGSGLHGWAFTLK QFAEMYVAKFAAKGEGQLGPAERAKK VEDMMKKLWGDYFDPANGKFSKPAT SPEGKKLPRTFCQLLDPIFKVFDAMNF KKEETAKLIEKLDIKLDEKDKGKPL KAVMRRWLPAGDALLQMITIHLPSVTA QKYRCELLYEGPPDDEAAMGIKSCDPKG PLMMYISKMVPTSDKGRFYAFGRVFSGL VSTGLKVRJMGPNYTPGKKEDLYLKPIQ RTILMMGRYVEPIEDVPCGNIVGLVGVD QFLVKTGTITTFEHAHNMRVMKFSVSPV VRVAVEAKNPADLPKLVEGLKRLAKSD PMVQCHIESGEHIIAGAGELHLEICLDL EEDHACIPIKSDPVVSYRETVSESNVL CLSKSPNKHNRLYMKARPPDGLAEDID KGEVSARQELQQRARYLAEKYWDVAE ARKIWCFGPDGTGPNILTDITKGVQYLN EIKDSVVAGFQWATKEGALCEENMRGV RFDVHDVTLHADAIHRGGGQIPTARRC LYASVLTAPRLMEPIYLVEIQCPQVVG GIYGVNLNRKRGHVFEESQVAGTPMFVV KAYLPVNESFGFTADLRSTGGQAFQPC VFDHWQILPGDPFDNSSRPSQVVAETRK RKGLKEGIPALDNFLDKL
8035	16086	A	983	1326	1498	
8036	16087	A	984	60	966	RRRNSDGNACQPATHLLLASARFITGHGQ KLKSELKKTQVIMLNIQKVRIPTRDGY NEKDILSTGKNVEKLELSNIAGYPSNIEK KEYQEQSLSCCSERKDANPKSVVCSFF MQEQCTKGEKRFLIPGTLSDRHLRYFG ILPTVSNAAVVKEVPTVSNAAVVTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8037	16088	A	985	1393	1625	
8038	16089	A	986	358	475	
8039	16090	A	987	232	329	
8040	16091	A	988	127	461	
8041	16092	A	989	562	897	
8042	16093	A	99	62	1548	PLKAKMGKEKTHINIVVIGHVDSGKST TTGHLIYKCGGNDKRTIEKFEKEAAEM GKGSKFYAWVLDKLKAERIERGITNDISL WKFETSKYYVD*SLIAPGHQETFIQKH DLQGTSQGLAWFGGPPFWGGSPLIVAA GVGEF*SLVSPKNGADPTKHALLGLHT GVWKQTKLFGVNKNWIST*/EPPYSPEED IEGNC*GKVSTYIKKIGYNPDTSILCPIS GWNGDNMLESPNMPWFQGDGKVTR KDGNASGTTLEALDCILPPTRPDKPLG LPLQDVYKIGGIGTVPVGRVETGVLKPG MVVTFGPVNVTTEVKSVEMHHEALGEA LPGDNVGFNVKNVSKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIAACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVVKA VDKKAAGAGKVTKSAQKAQKAK
8043	16094	A	991	7	494	
8044	16095	A	992	206	357	

8045	16096	A	993	1	101	
8046	16097	A	994	256	407	
8047	16098	A	995	254	432	
8048	16099	A	996	249	400	
8049	16100	A	997	37	465	
8050	16101	C	998	127	216	MRLRKQAEKNVEKKIDKYTEVLKTHGL LV*
8051	16102	A	999	1	1258	LFLPLLEPGERRGLLYRSRPGGAVAILL AAAVS\CAVSQHAPPWTEDCRKSTYPPS RPTYRGAVPWDTIQCLTYHPYKRWHEL MLDKAPV/LQKVIVNSLKNMINTFVPSG KIMQVVDEKL\PGLLGNFP\GPFEEMKG IGRCLLDIPLGEIISFNIFYELFTICTSIVA EDKKGHLIHGRNMDFGVFLVWNINND TWVITEQLKPLTVNLDFQRNNKTVFKAS SFAGYVGMLT\GFKPGLFSLTLNERFSIN GGYL GILEWILGKKDAMWIGFLTRTVLE NSTSYEEAKNLLTKTKILAPAYFILGGNQ SGEGCVITRDRKESLDVYELDAKQGRW YVVQTNYDRWKHPFLDDRTPAKMCL NRTSQENISFETMYDVLSTKPVLNKLTV YTTLIDVTKGQFETYLRDCPDPCIGW

**WHAT IS CLAIMED IS:**

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:
  - (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
  - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-8051.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.



13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
  - a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
  - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
  - a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
  - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
  - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:
  - a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and
  - b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.
17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:
  - a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and
  - b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.
18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO: 1-8051, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 8052-16102, the mature protein portion thereof, or the active domain thereof.

21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.

22. A collection of polynucleotides, wherein the collection comprises the sequence information of at least one of SEQ ID NO: 1-8051.

23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.

24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.

25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.

26. The collection of claim 22, wherein the collection is provided in a computer-readable format.

27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

28 A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

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